

**TDMS No.** 93025 - 07

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/F 344/N

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Tetralin

**CAS Number:** 119-64-2

**Date Report Requested:** 11/17/2008

**Time Report Requested:** 08:56:08

**First Dose M/F:** 06/16/03 / 06/16/03

**Lab:** BNW

F2\_R2

**C Number:** C93025  
**Lock Date:** 03/22/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.1.0

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF TETRALIN**

**MALE RATS**

**Organ**

Brain  
Eye: Sclera  
Harderian Gland  
Kidney: Pelvis, Transitional Epithelium  
Liver  
  
Liver: Bile Duct  
Liver: Centrilobular  
Liver: Hepatocyte  
Lung: Alveolus  
Lung: Bronchiole, Glands  
Lymph Node, Mediastinal  
Mesentery  
Nose  
  
Nose: Glands  
Nose: Olfactory Epithelium  
  
Nose: Respiratory Epithelium  
Pancreas: Acinus  
Pituitary Gland  
Pleura  
Skin  
  
Stomach, Forestomach  
Testes: Artery  
Testes: Germinal Epithelium  
Thyroid Gland: C-Cell  
Tooth

**Morphology**

Compression  
Metaplasia Osseous  
Inflammation Chronic  
Hyperplasia  
Basophilic Focus  
Necrosis  
Hyperplasia  
Degeneration  
Regeneration  
Foreign Body  
Degeneration Muroid  
Inflammation Chronic  
Necrosis  
Foreign Body  
Inflammation Chronic  
Dilatation  
Degeneration  
Hyperplasia Basal Cell  
Inflammation  
Metaplasia  
Mineralization  
Inflammation Chronic  
Atrophy  
Hemorrhage  
Fibrosis  
Cyst Epithelial Inclusion  
Ulcer  
Ulcer  
Inflammation Chronic  
Atrophy  
Hyperplasia  
Inflammation

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF TETRALIN**

Malformation

**FEMALE RATS**

**Organ**

Adrenal Cortex

Bone Marrow

Eye: Lens

Heart

Kidney

Kidney: Papilla

Kidney: Pelvis, Transitional Epithelium

Larynx: Respiratory Epithelium

Liver

Liver: Periportal

Lung

Lung: Alveolus

Lymph Node, Mediastinal

Nose

Nose: Glands

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Spleen

Thyroid Gland: C-Cell

Uterus

Uterus: Endometrium

**Morphology**

Hemorrhage

Hyperplasia Reticulum Cell

Cataract

Cardiomyopathy

Nephropathy Chronic

Mineralization

Hyperplasia

Hyperplasia

Clear Cell Focus

Inflammation Chronic

Inflammation Chronic

Infiltration Cellular Histiocyte

Proteinosis

Hyperplasia Lymphoid

Foreign Body

Inflammation

Dilatation

Degeneration

Degeneration Hyaline

Hyperplasia Basal Cell

Inflammation

Metaplasia

Mineralization

Hyperplasia

Inflammation Chronic

Necrosis

Hyperplasia

Necrosis

Hyperplasia

Inflammation

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex</b>				
<b>Hematopoietic Cell Proliferation</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	0/39.95	0/42.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/24 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
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)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.88	0/43.10	0/39.95	0/42.88
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/24 (0%)	0/28 (0%)
FIRST INCIDENCE	682	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.321N	P=0.484N	P=0.500N	P=0.486N
POLY 1.5	P=0.314N	P=0.492N	P=0.502N	P=0.493N
POLY 6	P=0.333N	P=0.472N	P=0.494N	P=0.473N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.158N	P=0.159N	P=0.158N

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TERMINAL SACRIFICE AT 105 WEEKS**

---

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	17/50 (34%)	18/49 (37%)	14/50 (28%)
POLY-3 RATE (b)	13/40.95	17/43.55	18/41.61	14/43.75
POLY-3 PERCENT (g)	31.8%	39%	43.3%	32%
TERMINAL (d)	8/20 (40%)	15/29 (52%)	11/24 (46%)	9/28 (32%)
FIRST INCIDENCE	563	663	600	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.483N	P=0.315	P=0.190	P=0.583
POLY 1.5	P=0.526N	P=0.286	P=0.180	P=0.541
POLY 6	P=0.406N	P=0.376	P=0.225	P=0.532N
COCH-ARM / FISHERS	P=0.517	P=0.257	P=0.175	P=0.500
MAX-ISO-POLY-3	P=0.447	P=0.245	P=0.136	P=0.489

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	17/50 (34%)	11/50 (22%)	19/49 (39%)	15/50 (30%)
POLY-3 RATE (b)	17/41.95	11/44.87	19/43.07	15/44.66
POLY-3 PERCENT (g)	40.5%	24.5%	44.1%	33.6%
TERMINAL (d)	9/20 (45%)	3/29 (10%)	9/24 (38%)	7/28 (25%)
FIRST INCIDENCE	557	547	561	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.511N	P=0.082N	P=0.453	P=0.326N
POLY 1.5	P=0.540N	P=0.103N	P=0.417	P=0.370N
POLY 6	P=0.460N	P=0.055N	P=0.530	P=0.253N
COCH-ARM / FISHERS	P=0.517	P=0.133N	P=0.388	P=0.415N
MAX-ISO-POLY-3	P=0.409N	P=0.057N	P=0.367	P=0.256N

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	16/50 (32%)	15/50 (30%)	15/49 (31%)	13/50 (26%)
POLY-3 RATE (b)	16/41.80	15/43.52	15/41.12	13/43.88
POLY-3 PERCENT (g)	38.3%	34.5%	36.5%	29.6%
TERMINAL (d)	8/20 (40%)	10/29 (35%)	10/24 (42%)	7/28 (25%)
FIRST INCIDENCE	530	663	561	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.242N	P=0.443N	P=0.523N	P=0.265N
POLY 1.5	P=0.268N	P=0.471N	P=0.528N	P=0.297N
POLY 6	P=0.200N	P=0.391N	P=0.505N	P=0.213N
COCH-ARM / FISHERS	P=0.294N	P=0.500N	P=0.527N	P=0.330N
MAX-ISO-POLY-3	P=0.327N	P=0.357N	P=0.430N	P=0.201N



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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Bone Marrow</b>				
<b>Hyperplasia Reticulum Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.56	0/43.10	1/41.53	0/42.88
POLY-3 PERCENT (g)	4.9%	0%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	563	---	547	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.190N	P=0.223N	P=0.492N	P=0.225N
POLY 1.5	P=0.189N	P=0.230N	P=0.496N	P=0.231N
POLY 6	P=0.192N	P=0.212N	P=0.482N	P=0.214N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.075N	P=0.275N	P=0.075N

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	13/50 (26%)	17/50 (34%)	4/50 (8%)
POLY-3 RATE (b)	13/42.84	13/45.94	17/44.97	4/43.34
POLY-3 PERCENT (g)	30.4%	28.3%	37.8%	9.2%
TERMINAL (d)	3/20 (15%)	4/29 (14%)	5/25 (20%)	2/28 (7%)
FIRST INCIDENCE	557	560	480	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.016N*	P=0.509N	P=0.303	P=0.012N*
POLY 1.5	P=0.017N*	P=0.545N	P=0.279	P=0.013N*
POLY 6	P=0.015N*	P=0.451N	P=0.351	P=0.010N**
COCH-ARM / FISHERS	P=0.020N*	P=0.590N	P=0.257	P=0.016N*
MAX-ISO-POLY-3	P=0.012N*	P=0.417N	P=0.234	P=0.006N**

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Brain Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	5/50 (10%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	6/41.91	5/44.63	4/42.31	2/44.30
POLY-3 PERCENT (g)	14.3%	11.2%	9.5%	4.5%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	530	513	483	483
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.082N	P=0.456N	P=0.362N	P=0.114N
POLY 1.5	P=0.087N	P=0.476N	P=0.367N	P=0.123N
POLY 6	P=0.076N	P=0.423N	P=0.351N	P=0.102N
COCH-ARM / FISHERS	P=0.092N	P=0.500N	P=0.370N	P=0.134N
MAX-ISO-POLY-3	P=0.108N	P=0.337N	P=0.247N	P=0.062N

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Lens</b>				
<b>Cataract</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	10/49 (20%)	10/48 (21%)	10/50 (20%)
POLY-3 RATE (b)	9/41.21	10/43.86	10/40.77	10/43.85
POLY-3 PERCENT (g)	21.8%	22.8%	24.5%	22.8%
TERMINAL (d)	3/20 (15%)	4/28 (14%)	6/25 (24%)	7/28 (25%)
FIRST INCIDENCE	563	513	483	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.509	P=0.561	P=0.489	P=0.561
POLY 1.5	P=0.488	P=0.524	P=0.475	P=0.531
POLY 6	P=0.545	P=0.588N	P=0.519	P=0.598N
COCH-ARM / FISHERS	P=0.466	P=0.480	P=0.460	P=0.500
MAX-ISO-POLY-3	P=0.656	P=0.458	P=0.385	P=0.458

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Retina</b>				
<b>Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/49 (6%)	5/48 (10%)	4/50 (8%)
POLY-3 RATE (b)	2/40.56	3/42.69	5/39.74	4/43.71
POLY-3 PERCENT (g)	4.9%	7%	12.6%	9.2%
TERMINAL (d)	0/20 (0%)	1/28 (4%)	4/25 (16%)	2/28 (7%)
FIRST INCIDENCE	563	563	718	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.292	P=0.523	P=0.206	P=0.372
POLY 1.5	P=0.275	P=0.508	P=0.202	P=0.355
POLY 6	P=0.321	P=0.550	P=0.216	P=0.402
COCH-ARM / FISHERS	P=0.258	P=0.490	P=0.201	P=0.339
MAX-ISO-POLY-3	P=0.285	P=0.348	P=0.111	P=0.235

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Sclera</b>				
<b>Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	11/49 (22%)	3/48 (6%)	7/50 (14%)
POLY-3 RATE (b)	4/40.07	11/42.16	3/40.04	7/43.66
POLY-3 PERCENT (g)	10%	26.1%	7.5%	16%
TERMINAL (d)	1/20 (5%)	10/28 (36%)	1/25 (4%)	3/28 (11%)
FIRST INCIDENCE	662	715	647	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.558	P=0.051	P=0.500N	P=0.310
POLY 1.5	P=0.523	P=0.045*	P=0.512N	P=0.286
POLY 6	P=0.509N	P=0.062	P=0.476N	P=0.354
COCH-ARM / FISHERS	P=0.487	P=0.041*	P=0.523N	P=0.262
MAX-ISO-POLY-3	P=0.328	P=0.030*	P=0.348N	P=0.216

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Harderian Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/39.70	1/43.65	2/41.66	3/42.88
POLY-3 PERCENT (g)	0%	2.3%	4.8%	7%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	1/25 (4%)	3/28 (11%)
FIRST INCIDENCE	---	560	483	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.069	P=0.519	P=0.248	P=0.132
POLY 1.5	P=0.065	P=0.510	P=0.242	P=0.126
POLY 6	P=0.076	P=0.534	P=0.258	P=0.145
COCH-ARM / FISHERS	P=0.062	P=0.500	P=0.247	P=0.121
MAX-ISO-POLY-3	P=0.080	P=0.181	P=0.086	P=0.050*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	35/50 (70%)	35/50 (70%)	38/50 (76%)	32/50 (64%)
POLY-3 RATE (b)	35/44.73	35/47.37	38/47.40	32/46.47
POLY-3 PERCENT (g)	78.2%	73.9%	80.2%	68.9%
TERMINAL (d)	18/20 (90%)	21/29 (72%)	21/25 (84%)	21/28 (75%)
FIRST INCIDENCE	563	500	480	484
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.199N	P=0.396N	P=0.512	P=0.204N
POLY 1.5	P=0.246N	P=0.479N	P=0.424	P=0.263N
POLY 6	P=0.138N	P=0.285N	P=0.598N	P=0.128N
COCH-ARM / FISHERS	P=0.301N	P=0.586N	P=0.326	P=0.335N
MAX-ISO-POLY-3	P=0.229N	P=0.305N	P=0.403	P=0.144N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Heart: Atrium</b>				
<b>Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/40.00	2/43.16	1/40.95	3/43.89
POLY-3 PERCENT (g)	2.5%	4.6%	2.4%	6.8%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	1/25 (4%)	1/28 (4%)
FIRST INCIDENCE	647	715	729 (T)	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.262	P=0.527	P=0.756N	P=0.339
POLY 1.5	P=0.250	P=0.514	P=0.758N	P=0.323
POLY 6	P=0.282	P=0.548	P=0.750N	P=0.367
COCH-ARM / FISHERS	P=0.237	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.279	P=0.309	P=0.493N	P=0.188

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Islets, Pancreatic Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	2/43.35	1/40.95	0/42.88
POLY-3 PERCENT (g)	0%	4.6%	2.4%	0%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	1/25 (4%)	0/28 (0%)
FIRST INCIDENCE	---	663	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.430N	P=0.257	P=0.506	(e)
POLY 1.5	P=0.445N	P=0.248	P=0.503	(e)
POLY 6	P=0.403N	P=0.274	P=0.514	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.347N	P=0.095	P=0.166	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney</b>				
<b>Nephropathy Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	48/50 (96%)	50/50 (100%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	48/49.34	50/50.00	48/49.22	50/50.00
POLY-3 PERCENT (g)	97.3%	100%	97.5%	100%
TERMINAL (d)	20/20 (100%)	29/29 (100%)	24/25 (96%)	28/28 (100%)
FIRST INCIDENCE	372	500	480	381
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.309	P=0.360	P=0.734	P=0.360
POLY 1.5	P=0.265	P=0.291	P=0.702	P=0.291
POLY 6	P=0.416	P=0.527	P=0.765N	P=0.527
COCH-ARM / FISHERS	P=0.247	P=0.247	P=0.691N	P=0.247
MAX-ISO-POLY-3	P=0.141	P=0.083	P=0.466	P=0.083

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Cortex, Renal Tubule Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/40.00	2/43.84	1/41.73	0/42.88
POLY-3 PERCENT (g)	2.5%	4.6%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	647	582	438	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.232N	P=0.532	P=0.752N	P=0.486N
POLY 1.5	P=0.240N	P=0.517	P=0.756N	P=0.493N
POLY 6	P=0.219N	P=0.557	P=0.744N	P=0.474N
COCH-ARM / FISHERS	P=0.247N	P=0.500	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.248N	P=0.315	P=0.487N	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Cortex, Renal Tubule Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/39.70	2/43.16	0/40.95	3/43.02
POLY-3 PERCENT (g)	2.5%	4.6%	0%	7%
TERMINAL (d)	1/20 (5%)	1/29 (3%)	0/25 (0%)	1/28 (4%)
FIRST INCIDENCE	729 (T)	715	---	701
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.257	P=0.529	P=0.494N	P=0.334
POLY 1.5	P=0.249	P=0.515	P=0.497N	P=0.320
POLY 6	P=0.271	P=0.553	P=0.486N	P=0.360
COCH-ARM / FISHERS	P=0.242	P=0.500	P=0.500N	P=0.309
MAX-ISO-POLY-3	P=0.232	P=0.312	P=0.158N	P=0.183

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Papilla Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	11/50 (22%)	10/50 (20%)	18/50 (36%)
POLY-3 RATE (b)	13/41.82	11/44.00	10/41.37	18/44.24
POLY-3 PERCENT (g)	31.1%	25%	24.2%	40.7%
TERMINAL (d)	5/20 (25%)	6/29 (21%)	8/25 (32%)	11/28 (39%)
FIRST INCIDENCE	593	560	623	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.123	P=0.348N	P=0.321N	P=0.237
POLY 1.5	P=0.117	P=0.375N	P=0.321N	P=0.214
POLY 6	P=0.138	P=0.306N	P=0.317N	P=0.286
COCH-ARM / FISHERS	P=0.115	P=0.408N	P=0.318N	P=0.194
MAX-ISO-POLY-3	P=0.128	P=0.269N	P=0.240N	P=0.180

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Pelvis, Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	7/50 (14%)
POLY-3 RATE (b)	1/39.70	1/43.68	0/40.95	7/43.52
POLY-3 PERCENT (g)	2.5%	2.3%	0%	16.1%
TERMINAL (d)	1/20 (5%)	0/29 (0%)	0/25 (0%)	5/28 (18%)
FIRST INCIDENCE	729 (T)	547	---	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002**	P=0.739N	P=0.494N	P=0.040*
POLY 1.5	P=0.002**	P=0.749N	P=0.497N	P=0.035*
POLY 6	P=0.002**	P=0.722N	P=0.486N	P=0.050*
COCH-ARM / FISHERS	P=0.002**	P=0.753N	P=0.500N	P=0.030*
MAX-ISO-POLY-3	P=0.003**	P=0.473N	P=0.158N	P=0.021*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Pelvis, Transitional Epithelium</b>				
<b>Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	0/40.95	0/42.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Larynx				
Foreign Body				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	2/50 (4%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	6/40.21	2/43.33	4/42.12	3/42.91
POLY-3 PERCENT (g)	14.9%	4.6%	9.5%	7%
TERMINAL (d)	4/20 (20%)	1/29 (3%)	0/25 (0%)	2/28 (7%)
FIRST INCIDENCE	642	670	523	722
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.266N	P=0.108N	P=0.339N	P=0.209N
POLY 1.5	P=0.272N	P=0.120N	P=0.355N	P=0.225N
POLY 6	P=0.258N	P=0.091N	P=0.310N	P=0.182N
COCH-ARM / FISHERS	P=0.278N	P=0.134N	P=0.370N	P=0.243N
MAX-ISO-POLY-3	P=0.176N	P=0.060N	P=0.231N	P=0.129N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Larynx Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	2/50 (4%)	7/50 (14%)	7/50 (14%)
POLY-3 RATE (b)	5/40.21	2/43.33	7/42.52	7/44.26
POLY-3 PERCENT (g)	12.4%	4.6%	16.5%	15.8%
TERMINAL (d)	3/20 (15%)	1/29 (3%)	2/25 (8%)	2/28 (7%)
FIRST INCIDENCE	642	670	547	586
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.193	P=0.185N	P=0.418	P=0.447
POLY 1.5	P=0.179	P=0.200N	P=0.398	P=0.414
POLY 6	P=0.219	P=0.163N	P=0.457	P=0.505
COCH-ARM / FISHERS	P=0.165	P=0.218N	P=0.380	P=0.380
MAX-ISO-POLY-3	P=0.243	P=0.106N	P=0.306	P=0.335

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Larynx: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.77	0/43.10	0/40.95	0/42.88
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	712	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.321N	P=0.484N	P=0.494N	P=0.485N
POLY 1.5	P=0.313N	P=0.491N	P=0.497N	P=0.492N
POLY 6	P=0.333N	P=0.471N	P=0.487N	P=0.472N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.158N	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<hr/>				
Liver				
Angiectasis				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.70	1/43.16	0/40.95	1/42.99
POLY-3 PERCENT (g)	0%	2.3%	0%	2.3%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	715	---	701
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.428	P=0.517	(e)	P=0.516
POLY 1.5	P=0.417	P=0.509	(e)	P=0.508
POLY 6	P=0.447	P=0.530	(e)	P=0.530
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.287	P=0.179	(e)	P=0.178

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TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	1/50 (2%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	6/41.00	1/43.10	6/41.10	3/43.34
POLY-3 PERCENT (g)	14.6%	2.3%	14.6%	6.9%
TERMINAL (d)	3/20 (15%)	1/29 (3%)	5/25 (20%)	1/28 (4%)
FIRST INCIDENCE	563	729 (T)	689	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.345N	P=0.047N*	P=0.621N	P=0.213N
POLY 1.5	P=0.354N	P=0.051N	P=0.621	P=0.228N
POLY 6	P=0.330N	P=0.040N*	P=0.611N	P=0.188N
COCH-ARM / FISHERS	P=0.362N	P=0.056N	P=0.620N	P=0.243N
MAX-ISO-POLY-3	P=0.188N	P=0.022N*	P=0.497N	P=0.132N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	14/50 (28%)	11/50 (22%)	13/50 (26%)
POLY-3 RATE (b)	12/41.50	14/43.90	11/40.95	13/43.36
POLY-3 PERCENT (g)	28.9%	31.9%	26.9%	30%
TERMINAL (d)	8/20 (40%)	12/29 (41%)	11/25 (44%)	12/28 (43%)
FIRST INCIDENCE	372	547	729 (T)	586
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.539N	P=0.475	P=0.515N	P=0.553
POLY 1.5	P=0.534	P=0.441	P=0.513N	P=0.523
POLY 6	P=0.502N	P=0.540	P=0.505N	P=0.586N
COCH-ARM / FISHERS	P=0.522	P=0.410	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.652N	P=0.383	P=0.415N	P=0.457

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Degeneration Cystic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/39.81	2/43.10	1/40.95	2/43.13
POLY-3 PERCENT (g)	2.5%	4.6%	2.4%	4.6%
TERMINAL (d)	0/20 (0%)	2/29 (7%)	1/25 (4%)	1/28 (4%)
FIRST INCIDENCE	701	729 (T)	729 (T)	663
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.471	P=0.528	P=0.755N	P=0.528
POLY 1.5	P=0.458	P=0.515	P=0.758N	P=0.514
POLY 6	P=0.494	P=0.550	P=0.748N	P=0.552
COCH-ARM / FISHERS	P=0.444	P=0.500	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.496	P=0.310	P=0.491N	P=0.311

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	1/41.58	0/42.88
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	523	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.715	(e)	P=0.509	(e)
POLY 1.5	P=0.705	(e)	P=0.505	(e)
POLY 6	P=0.732	(e)	P=0.518	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.408	(e)	P=0.170	(e)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Hepatodiaphragmatic Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	4/40.52	4/43.16	4/40.95	4/42.88
POLY-3 PERCENT (g)	9.9%	9.3%	9.8%	9.3%
TERMINAL (d)	0/20 (0%)	3/29 (10%)	4/25 (16%)	4/28 (14%)
FIRST INCIDENCE	649	715	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.549N	P=0.609N	P=0.639N	P=0.613N
POLY 1.5	P=0.560N	P=0.625N	P=0.641N	P=0.628N
POLY 6	P=0.533N	P=0.582N	P=0.631N	P=0.587N
COCH-ARM / FISHERS	P=0.570	P=0.643N	P=0.643N	P=0.643N
MAX-ISO-POLY-3	P=0.711N	P=0.463N	P=0.493N	P=0.466N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/40.28	3/43.42	1/41.10	0/42.88
POLY-3 PERCENT (g)	7.5%	6.9%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	670	676	691	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.047N*	P=0.628N	P=0.297N	P=0.107N
POLY 1.5	P=0.049N*	P=0.644N	P=0.302N	P=0.113N
POLY 6	P=0.044N*	P=0.599N	P=0.287N	P=0.098N
COCH-ARM / FISHERS	P=0.052N	P=0.661N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.073N	P=0.463N	P=0.150N	P=0.037N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	5/50 (10%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	4/41.87	5/43.16	4/42.23	8/44.51
POLY-3 PERCENT (g)	9.6%	11.6%	9.5%	18%
TERMINAL (d)	0/20 (0%)	3/29 (10%)	1/25 (4%)	1/28 (4%)
FIRST INCIDENCE	372	722	547	614
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.147	P=0.519	P=0.640N	P=0.206
POLY 1.5	P=0.136	P=0.508	P=0.643	P=0.189
POLY 6	P=0.169	P=0.544	P=0.625N	P=0.241
COCH-ARM / FISHERS	P=0.129	P=0.500	P=0.643N	P=0.178
MAX-ISO-POLY-3	P=0.196	P=0.381	P=0.494N	P=0.135

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Bile Duct Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	15/50 (30%)	3/50 (6%)	4/50 (8%)	9/50 (18%)
POLY-3 RATE (b)	15/42.05	3/43.18	4/41.53	9/43.15
POLY-3 PERCENT (g)	35.7%	7%	9.6%	20.9%
TERMINAL (d)	6/20 (30%)	1/29 (3%)	1/25 (4%)	7/28 (25%)
FIRST INCIDENCE	586	716	623	687
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.193N	P<0.001N**	P=0.003N**	P=0.096N
POLY 1.5	P=0.196N	P<0.001N**	P=0.004N**	P=0.107N
POLY 6	P=0.188N	P<0.001N**	P=0.003N**	P=0.080N
COCH-ARM / FISHERS	P=0.205N	P=0.002N**	P=0.005N**	P=0.121N
MAX-ISO-POLY-3	P=0.004N**	P<0.001N**	P=0.002N**	P=0.063N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Centrilobular Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/39.70	0/43.10	0/40.95	2/43.89
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.048*	(e)	(e)	P=0.260
POLY 1.5	P=0.047*	(e)	(e)	P=0.249
POLY 6	P=0.050*	(e)	(e)	P=0.279
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.052	(e)	(e)	P=0.098

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Hepatocyte Regeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.00	0/43.10	0/40.95	0/42.88
POLY-3 PERCENT (g)	5%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	648	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.121N	P=0.220N	P=0.231N	P=0.222N
POLY 1.5	P=0.118N	P=0.228N	P=0.235N	P=0.229N
POLY 6	P=0.128N	P=0.208N	P=0.224N	P=0.209N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.032N*	P=0.075N	P=0.075N	P=0.075N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Periportal Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	3/40.02	3/43.57	2/40.99	5/43.28
POLY-3 PERCENT (g)	7.5%	6.9%	4.9%	11.6%
TERMINAL (d)	2/20 (10%)	2/29 (7%)	1/25 (4%)	4/28 (14%)
FIRST INCIDENCE	642	590	719	614
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.283	P=0.623N	P=0.489N	P=0.400
POLY 1.5	P=0.274	P=0.641N	P=0.495N	P=0.378
POLY 6	P=0.300	P=0.591N	P=0.475N	P=0.437
COCH-ARM / FISHERS	P=0.264	P=0.661N	P=0.500N	P=0.357
MAX-ISO-POLY-3	P=0.326	P=0.458N	P=0.315N	P=0.274

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	3/50 (6%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	5/40.51	3/43.49	5/40.97	3/43.20
POLY-3 PERCENT (g)	12.3%	6.9%	12.2%	6.9%
TERMINAL (d)	2/20 (10%)	0/29 (0%)	4/25 (16%)	2/28 (7%)
FIRST INCIDENCE	642	676	724	641
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.342N	P=0.317N	P=0.625N	P=0.320N
POLY 1.5	P=0.352N	P=0.335N	P=0.628N	P=0.338N
POLY 6	P=0.326N	P=0.286N	P=0.615N	P=0.292N
COCH-ARM / FISHERS	P=0.362N	P=0.357N	P=0.630N	P=0.357N
MAX-ISO-POLY-3	P=0.337N	P=0.207N	P=0.492N	P=0.209N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	2/41.62	0/42.88
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	523	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.624	(e)	P=0.247	(e)
POLY 1.5	P=0.610	(e)	P=0.242	(e)
POLY 6	P=0.646	(e)	P=0.258	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.276	(e)	P=0.086	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/50 (16%)	10/50 (20%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	8/40.79	10/43.92	7/41.15	9/43.46
POLY-3 PERCENT (g)	19.6%	22.8%	17%	20.7%
TERMINAL (d)	5/20 (25%)	7/29 (24%)	5/25 (20%)	7/28 (25%)
FIRST INCIDENCE	557	563	689	586
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.539N	P=0.465	P=0.492N	P=0.558
POLY 1.5	P=0.546	P=0.433	P=0.498N	P=0.529
POLY 6	P=0.505N	P=0.521	P=0.475N	P=0.609
COCH-ARM / FISHERS	P=0.525	P=0.398	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.620N	P=0.365	P=0.379N	P=0.450

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	7/50 (14%)	11/50 (22%)	15/50 (30%)
POLY-3 RATE (b)	12/42.71	7/44.88	11/41.80	15/45.13
POLY-3 PERCENT (g)	28.1%	15.6%	26.3%	33.2%
TERMINAL (d)	5/20 (25%)	3/29 (10%)	6/25 (24%)	7/28 (25%)
FIRST INCIDENCE	557	560	623	577
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.155	P=0.121N	P=0.524N	P=0.385
POLY 1.5	P=0.148	P=0.135N	P=0.516N	P=0.354
POLY 6	P=0.173	P=0.099N	P=0.523N	P=0.445
COCH-ARM / FISHERS	P=0.145	P=0.154N	P=0.500N	P=0.326
MAX-ISO-POLY-3	P=0.176	P=0.081N	P=0.425N	P=0.304

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolar Epithelium Metaplasia Mucous</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/39.93	0/43.10	2/40.95	2/43.02
POLY-3 PERCENT (g)	2.5%	0%	4.9%	4.7%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	2/25 (8%)	0/28 (0%)
FIRST INCIDENCE	668	---	729 (T)	701
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.258	P=0.485N	P=0.509	P=0.526
POLY 1.5	P=0.252	P=0.492N	P=0.504	P=0.513
POLY 6	P=0.268	P=0.472N	P=0.520	P=0.548
COCH-ARM / FISHERS	P=0.245	P=0.500N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.293	P=0.158N	P=0.290	P=0.308

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/39.70	0/43.10	0/40.95	2/42.88
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	2/28 (7%)
FIRST INCIDENCE	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.047*	(e)	(e)	P=0.254
POLY 1.5	P=0.046*	(e)	(e)	P=0.246
POLY 6	P=0.048*	(e)	(e)	P=0.270
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.047*	(e)	(e)	P=0.092

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/50 (26%)	16/50 (32%)	14/50 (28%)	15/50 (30%)
POLY-3 RATE (b)	13/41.44	16/44.77	14/43.58	15/45.57
POLY-3 PERCENT (g)	31.4%	35.7%	32.1%	32.9%
TERMINAL (d)	8/20 (40%)	9/29 (31%)	8/25 (32%)	8/28 (29%)
FIRST INCIDENCE	591	582	438	483
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.544N	P=0.419	P=0.564	P=0.530
POLY 1.5	P=0.496	P=0.376	P=0.534	P=0.474
POLY 6	P=0.474N	P=0.500	P=0.579N	P=0.570N
COCH-ARM / FISHERS	P=0.437	P=0.330	P=0.500	P=0.412
MAX-ISO-POLY-3	P=0.644	P=0.337	P=0.470	P=0.440

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus Proteinosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/39.93	1/43.10	3/40.95	4/42.91
POLY-3 PERCENT (g)	7.5%	2.3%	7.3%	9.3%
TERMINAL (d)	2/20 (10%)	1/29 (3%)	3/25 (12%)	3/28 (11%)
FIRST INCIDENCE	668	729 (T)	729 (T)	722
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.295	P=0.278N	P=0.652N	P=0.539
POLY 1.5	P=0.289	P=0.291N	P=0.658N	P=0.520
POLY 6	P=0.306	P=0.256N	P=0.638N	P=0.573
COCH-ARM / FISHERS	P=0.282	P=0.309N	P=0.661N	P=0.500
MAX-ISO-POLY-3	P=0.346	P=0.144N	P=0.487N	P=0.386

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Bronchiole Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.70	1/43.45	0/40.95	1/43.27
POLY-3 PERCENT (g)	0%	2.3%	0%	2.3%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	633	---	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.429	P=0.518	(e)	P=0.517
POLY 1.5	P=0.418	P=0.509	(e)	P=0.509
POLY 6	P=0.450	P=0.533	(e)	P=0.532
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.289	P=0.180	(e)	P=0.179



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Bronchiole, Glands Degeneration Mucoïd</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	0/50 (0%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	5/39.74	0/43.10	1/40.95	4/42.88
POLY-3 PERCENT (g)	12.6%	0%	2.4%	9.3%
TERMINAL (d)	4/20 (20%)	0/29 (0%)	1/25 (4%)	4/28 (14%)
FIRST INCIDENCE	718	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.539	P=0.024N*	P=0.093N	P=0.452N
POLY 1.5	P=0.541	P=0.027N*	P=0.098N	P=0.476N
POLY 6	P=0.533	P=0.019N*	P=0.083N	P=0.411N
COCH-ARM / FISHERS	P=0.544	P=0.028N*	P=0.102N	P=0.500N
MAX-ISO-POLY-3	P=0.084N	P=0.009N**	P=0.042N*	P=0.324N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Mediastinum Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	2/40.95	0/42.88
POLY-3 PERCENT (g)	0%	0%	4.9%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	2/25 (8%)	0/28 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.624	(e)	P=0.244	(e)
POLY 1.5	P=0.610	(e)	P=0.240	(e)
POLY 6	P=0.647	(e)	P=0.252	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.272	(e)	P=0.082	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/7 (14%)	0/5 (0%)	2/4 (50%)	0/4 (0%)
POLY-3 RATE (b)	1/5.20	0/4.89	2/3.25	0/3.87
POLY-3 PERCENT (g)	19.2%	0%	61.6%	0%
TERMINAL (d)	1/2 (50%)	0/2 (0%)	1/1 (100%)	0/3 (0%)
FIRST INCIDENCE	729 (T)	---	662	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.564N	P=0.512N	P=0.295	P=0.561N
POLY 1.5	P=0.586N	P=0.539N	P=0.290	P=0.585N
POLY 6	P=0.540N	P=0.467N	P=0.309	P=0.517N
COCH-ARM / FISHERS	P=0.609N	P=0.583N	P=0.279	P=0.636N
MAX-ISO-POLY-3	P=0.272N	P=0.174N	P=0.113	P=0.189N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/7 (0%)	0/5 (0%)	0/4 (0%)	1/4 (25%)
POLY-3 RATE (b)	0/5.20	0/4.89	0/3.00	1/4.00
POLY-3 PERCENT (g)	0%	0%	0%	25%
TERMINAL (d)	0/2 (0%)	0/2 (0%)	0/1 (0%)	0/3 (0%)
FIRST INCIDENCE	---	---	---	695
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.161	(e)	(e)	P=0.445
POLY 1.5	P=0.150	(e)	(e)	P=0.415
POLY 6	P=0.180	(e)	(e)	P=0.496
COCH-ARM / FISHERS	P=0.139	(e)	(e)	P=0.364
MAX-ISO-POLY-3	P=0.085	(e)	(e)	P=0.115

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/7 (29%)	0/5 (0%)	0/4 (0%)	0/4 (0%)
POLY-3 RATE (b)	2/5.64	0/4.89	0/3.00	0/3.87
POLY-3 PERCENT (g)	35.5%	0%	0%	0%
TERMINAL (d)	1/2 (50%)	0/2 (0%)	0/1 (0%)	0/3 (0%)
FIRST INCIDENCE	600	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.186N	P=0.243N	P=0.373N	P=0.302N
POLY 1.5	P=0.176N	P=0.271N	P=0.366N	P=0.329N
POLY 6	P=0.203N	P=0.200N	P=0.390N	P=0.256N
COCH-ARM / FISHERS	P=0.167N	P=0.318N	P=0.382N	P=0.382N
MAX-ISO-POLY-3	P=0.073N	P=0.068N	P=0.158N	P=0.099N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/33 (3%)	1/36 (3%)	0/36 (0%)	2/31 (6%)
POLY-3 RATE (b)	1/26.16	1/30.50	0/28.66	2/25.70
POLY-3 PERCENT (g)	3.8%	3.3%	0%	7.8%
TERMINAL (d)	0/12 (0%)	0/19 (0%)	0/15 (0%)	1/15 (7%)
FIRST INCIDENCE	684	715	---	586
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.341	P=0.727N	P=0.482N	P=0.494
POLY 1.5	P=0.340	P=0.733N	P=0.482N	P=0.485
POLY 6	P=0.345	P=0.714N	P=0.479N	P=0.511
COCH-ARM / FISHERS	P=0.339	P=0.731N	P=0.478N	P=0.476
MAX-ISO-POLY-3	P=0.242	P=0.458N	P=0.152N	P=0.274

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/33 (0%)	1/36 (3%)	1/36 (3%)	1/31 (3%)
POLY-3 RATE (b)	0/25.99	1/31.02	1/28.81	1/25.22
POLY-3 PERCENT (g)	0%	3.2%	3.5%	4%
TERMINAL (d)	0/12 (0%)	0/19 (0%)	0/15 (0%)	1/15 (7%)
FIRST INCIDENCE	---	547	691	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.368	P=0.535	P=0.521	P=0.494
POLY 1.5	P=0.363	P=0.527	P=0.519	P=0.490
POLY 6	P=0.379	P=0.549	P=0.526	P=0.503
COCH-ARM / FISHERS	P=0.360	P=0.522	P=0.522	P=0.484
MAX-ISO-POLY-3	P=0.316	P=0.196	P=0.178	P=0.154

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/33 (6%)	0/36 (0%)	0/36 (0%)	0/31 (0%)
POLY-3 RATE (b)	2/26.43	0/30.45	0/28.66	0/25.22
POLY-3 PERCENT (g)	7.6%	0%	0%	0%
TERMINAL (d)	1/12 (8%)	0/19 (0%)	0/15 (0%)	0/15 (0%)
FIRST INCIDENCE	600	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.119N	P=0.204N	P=0.217N	P=0.245N
POLY 1.5	P=0.116N	P=0.210N	P=0.217N	P=0.248N
POLY 6	P=0.124N	P=0.194N	P=0.215N	P=0.238N
COCH-ARM / FISHERS	P=0.116N	P=0.225N	P=0.225N	P=0.262N
MAX-ISO-POLY-3	P=0.031N*	P=0.069N	P=0.069N	P=0.080N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/33 (0%)	0/36 (0%)	0/36 (0%)	0/31 (0%)
POLY-3 RATE (b)	0/25.99	0/30.45	0/28.66	0/25.22
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/19 (0%)	0/15 (0%)	0/15 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mammary Gland</b>				
<b>Galactocele</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/40.00	3/43.23	2/41.25	2/43.28
POLY-3 PERCENT (g)	5%	6.9%	4.9%	4.6%
TERMINAL (d)	1/20 (5%)	2/29 (7%)	1/25 (4%)	0/28 (0%)
FIRST INCIDENCE	647	696	647	663
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.496N	P=0.535	P=0.684N	P=0.666N
POLY 1.5	P=0.509N	P=0.519	P=0.689N	P=0.680N
POLY 6	P=0.472N	P=0.565	P=0.671N	P=0.640N
COCH-ARM / FISHERS	P=0.523N	P=0.500	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.616N	P=0.360	P=0.487N	P=0.468N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mesentery</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/15 (80%)	13/13 (100%)	12/12 (100%)	11/11 (100%)
POLY-3 RATE (b)	12/14.45	13/13.00	12/12.00	11/11.00
POLY-3 PERCENT (g)	83.1%	100%	100%	100%
TERMINAL (d)	7/8 (88%)	8/8 (100%)	6/6 (100%)	8/8 (100%)
FIRST INCIDENCE	591	642	483	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.080	P=0.173	P=0.190	P=0.211
POLY 1.5	P=0.066	P=0.151	P=0.168	P=0.188
POLY 6	P=0.108	P=0.209	P=0.227	P=0.248
COCH-ARM / FISHERS	P=0.062	P=0.139	P=0.156	P=0.175
MAX-ISO-POLY-3	P=0.032*	P=0.051	P=0.062	P=0.074

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mesentery: Fat Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/15 (13%)	0/13 (0%)	0/12 (0%)	1/11 (9%)
POLY-3 RATE (b)	2/12.91	0/12.52	0/10.28	1/10.33
POLY-3 PERCENT (g)	15.5%	0%	0%	9.7%
TERMINAL (d)	1/8 (13%)	0/8 (0%)	0/6 (0%)	0/8 (0%)
FIRST INCIDENCE	726	---	---	725
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.236N	P=0.283N	P=0.580N
POLY 1.5	P=0.551N	P=0.249N	P=0.284N	P=0.593N
POLY 6	P=0.574N	P=0.220N	P=0.280N	P=0.561N
COCH-ARM / FISHERS	P=0.538N	P=0.278N	P=0.299N	P=0.619N
MAX-ISO-POLY-3	P=0.194N	P=0.076N	P=0.105N	P=0.347N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	5/50 (10%)	5/49 (10%)	3/50 (6%)
POLY-3 RATE (b)	11/40.91	5/43.19	5/41.26	3/43.27
POLY-3 PERCENT (g)	26.9%	11.6%	12.1%	6.9%
TERMINAL (d)	7/20 (35%)	3/29 (10%)	2/25 (8%)	2/28 (7%)
FIRST INCIDENCE	591	715	619	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.015N*	P=0.062N	P=0.075N	P=0.013N*
POLY 1.5	P=0.017N*	P=0.072N	P=0.084N	P=0.016N*
POLY 6	P=0.013N*	P=0.048N*	P=0.061N	P=0.009N**
COCH-ARM / FISHERS	P=0.020N*	P=0.086N	P=0.093N	P=0.020N*
MAX-ISO-POLY-3	P=0.007N**	P=0.038N*	P=0.044N*	P=0.007N**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	6/50 (12%)	5/49 (10%)	4/50 (8%)
POLY-3 RATE (b)	6/40.46	6/43.43	5/41.31	4/43.43
POLY-3 PERCENT (g)	14.8%	13.8%	12.1%	9.2%
TERMINAL (d)	4/20 (20%)	3/29 (10%)	1/25 (4%)	2/28 (7%)
FIRST INCIDENCE	591	674	619	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.249N	P=0.571N	P=0.485N	P=0.324N
POLY 1.5	P=0.265N	P=0.595N	P=0.501N	P=0.347N
POLY 6	P=0.223N	P=0.528N	P=0.451N	P=0.286N
COCH-ARM / FISHERS	P=0.281N	P=0.620N	P=0.514N	P=0.370N
MAX-ISO-POLY-3	P=0.368N	P=0.448N	P=0.360N	P=0.222N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/39.70	0/43.10	0/40.32	0/42.88
POLY-3 PERCENT (g)	5%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.123N	P=0.219N	P=0.233N	P=0.220N
POLY 1.5	P=0.119N	P=0.227N	P=0.238N	P=0.228N
POLY 6	P=0.131N	P=0.205N	P=0.223N	P=0.206N
COCH-ARM / FISHERS	P=0.116N	P=0.247N	P=0.253N	P=0.247N
MAX-ISO-POLY-3	P=0.033N*	P=0.075N	P=0.076N	P=0.075N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Glands Dilatation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	3/49 (6%)	16/50 (32%)
POLY-3 RATE (b)	0/39.70	3/43.10	3/40.92	16/44.11
POLY-3 PERCENT (g)	0%	7%	7.3%	36.3%
TERMINAL (d)	0/20 (0%)	3/29 (10%)	2/25 (8%)	11/28 (39%)
FIRST INCIDENCE	---	729 (T)	537	381
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.133	P=0.123	P<0.001**
POLY 1.5	P<0.001**	P=0.126	P=0.119	P<0.001**
POLY 6	P<0.001**	P=0.147	P=0.132	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.121	P=0.117	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.051	P=0.043*	P<0.001**



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Nasolacrimal Duct Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.16	3/43.10	0/40.32	0/42.88
POLY-3 PERCENT (g)	2.5%	7%	0%	0%
TERMINAL (d)	0/20 (0%)	3/29 (10%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	593	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.139N	P=0.330	P=0.499N	P=0.487N
POLY 1.5	P=0.146N	P=0.319	P=0.502N	P=0.493N
POLY 6	P=0.128N	P=0.352	P=0.493N	P=0.475N
COCH-ARM / FISHERS	P=0.154N	P=0.309	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.130N	P=0.180	P=0.160N	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	40/50 (80%)	43/49 (88%)	42/50 (84%)
POLY-3 RATE (b)	1/39.95	40/47.21	43/47.75	42/47.88
POLY-3 PERCENT (g)	2.5%	84.7%	90.1%	87.7%
TERMINAL (d)	0/20 (0%)	29/29 (100%)	25/25 (100%)	26/28 (93%)
FIRST INCIDENCE	662	500	438	483
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Degeneration Hyaline</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.88	0/43.10	0/40.32	0/42.88
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	682	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.320N	P=0.484N	P=0.498N	P=0.486N
POLY 1.5	P=0.314N	P=0.492N	P=0.501N	P=0.493N
POLY 6	P=0.332N	P=0.472N	P=0.490N	P=0.473N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.158N	P=0.159N	P=0.158N

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Hyperplasia Basal Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	38/50 (76%)	48/49 (98%)	48/50 (96%)
POLY-3 RATE (b)	0/39.70	38/47.10	48/48.46	48/49.44
POLY-3 PERCENT (g)	0%	80.7%	99.1%	97.1%
TERMINAL (d)	0/20 (0%)	25/29 (86%)	25/25 (100%)	28/28 (100%)
FIRST INCIDENCE	---	500	438	381
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	12/50 (24%)	8/49 (16%)	10/50 (20%)
POLY-3 RATE (b)	0/39.70	12/43.78	8/40.32	10/43.69
POLY-3 PERCENT (g)	0%	27.4%	19.8%	22.9%
TERMINAL (d)	0/20 (0%)	11/29 (38%)	8/25 (32%)	8/28 (29%)
FIRST INCIDENCE	---	500	729 (T)	577
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.038*	P<0.001**	P=0.003**	P<0.001**
POLY 1.5	P=0.030*	P<0.001**	P=0.003**	P<0.001**
POLY 6	P=0.059	P<0.001**	P=0.004**	P=0.002**
COCH-ARM / FISHERS	P=0.026*	P<0.001**	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P=0.005**	P<0.001**	P<0.001**	P<0.001**

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	17/50 (34%)	31/49 (63%)	37/50 (74%)
POLY-3 RATE (b)	0/39.70	17/43.19	31/44.03	37/45.41
POLY-3 PERCENT (g)	0%	39.4%	70.4%	81.5%
TERMINAL (d)	0/20 (0%)	15/29 (52%)	18/25 (72%)	28/28 (100%)
FIRST INCIDENCE	---	715	438	381
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	5/50 (10%)	12/49 (24%)	17/50 (34%)
POLY-3 RATE (b)	0/39.70	5/44.54	12/44.29	17/44.88
POLY-3 PERCENT (g)	0%	11.2%	27.1%	37.9%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	1/25 (4%)	9/28 (32%)
FIRST INCIDENCE	---	563	480	614
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.041*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.036*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.051	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.028*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.018*	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/49 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/39.70	2/43.31	3/40.47	3/43.58
POLY-3 PERCENT (g)	2.5%	4.6%	7.4%	6.9%
TERMINAL (d)	1/20 (5%)	1/29 (3%)	2/25 (8%)	1/28 (4%)
FIRST INCIDENCE	729 (T)	674	689	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.259	P=0.530	P=0.311	P=0.339
POLY 1.5	P=0.243	P=0.516	P=0.304	P=0.322
POLY 6	P=0.286	P=0.556	P=0.328	P=0.368
COCH-ARM / FISHERS	P=0.227	P=0.500	P=0.301	P=0.309
MAX-ISO-POLY-3	P=0.304	P=0.313	P=0.161	P=0.188



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Respiratory Epithelium Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	4/50 (8%)	18/49 (37%)	16/50 (32%)
POLY-3 RATE (b)	4/40.44	4/43.10	18/41.59	16/44.40
POLY-3 PERCENT (g)	9.9%	9.3%	43.3%	36%
TERMINAL (d)	1/20 (5%)	4/29 (14%)	14/25 (56%)	11/28 (39%)
FIRST INCIDENCE	642	729 (T)	561	483
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.609N	P<0.001**	P=0.003**
POLY 1.5	P<0.001**	P=0.624N	P<0.001**	P=0.003**
POLY 6	P<0.001**	P=0.581N	P<0.001**	P=0.005**
COCH-ARM / FISHERS	P<0.001**	P=0.643N	P<0.001**	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P=0.462N	P<0.001**	P=0.002**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Oral Mucosa: Pharyngeal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/1 (0%)	0/0 (0%)	2/3 (67%)	0/0 (0%)
POLY-3 RATE (b)	0/1.00	0/0.00	2/2.85	0/0.00
POLY-3 PERCENT (g)	0%	0%	70.1%	0%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	2/2 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	P=0.483	(e)
POLY 1.5	(e)	(e)	P=0.492	(e)
POLY 6	(e)	(e)	P=0.466	(e)
COCH-ARM / FISHERS	P=0.500	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	P=0.176	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	5/50 (10%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	9/41.32	5/43.19	3/41.59	5/43.23
POLY-3 PERCENT (g)	21.8%	11.6%	7.2%	11.6%
TERMINAL (d)	4/20 (20%)	3/29 (10%)	1/25 (4%)	2/28 (7%)
FIRST INCIDENCE	586	715	619	674
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.149N	P=0.165N	P=0.055N	P=0.164N
POLY 1.5	P=0.155N	P=0.178N	P=0.058N	P=0.179N
POLY 6	P=0.140N	P=0.144N	P=0.049N*	P=0.141N
COCH-ARM / FISHERS	P=0.160N	P=0.194N	P=0.061N	P=0.194N
MAX-ISO-POLY-3	P=0.075N	P=0.106N	P=0.028N*	P=0.106N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/49 (6%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/39.93	3/43.53	0/39.95	0/41.88
POLY-3 PERCENT (g)	5%	6.9%	0%	0%
TERMINAL (d)	1/20 (5%)	0/28 (0%)	0/24 (0%)	0/27 (0%)
FIRST INCIDENCE	668	500	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.068N	P=0.539	P=0.236N	P=0.226N
POLY 1.5	P=0.071N	P=0.517	P=0.239N	P=0.234N
POLY 6	P=0.063N	P=0.575	P=0.230N	P=0.214N
COCH-ARM / FISHERS	P=0.075N	P=0.490	P=0.253N	P=0.253N
MAX-ISO-POLY-3	P=0.098N	P=0.365	P=0.076N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/49 (4%)	4/49 (8%)	4/49 (8%)
POLY-3 RATE (b)	0/39.70	2/42.65	4/41.16	4/42.27
POLY-3 PERCENT (g)	0%	4.7%	9.7%	9.5%
TERMINAL (d)	0/20 (0%)	1/28 (4%)	1/24 (4%)	2/27 (7%)
FIRST INCIDENCE	---	560	483	654
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.058	P=0.253	P=0.064	P=0.068
POLY 1.5	P=0.052	P=0.243	P=0.061	P=0.063
POLY 6	P=0.069	P=0.270	P=0.071	P=0.078
COCH-ARM / FISHERS	P=0.048*	P=0.242	P=0.056	P=0.056
MAX-ISO-POLY-3	P=0.062	P=0.092	P=0.023*	P=0.026*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	8/49 (16%)	4/49 (8%)	6/49 (12%)
POLY-3 RATE (b)	7/41.02	8/42.38	4/40.33	6/43.53
POLY-3 PERCENT (g)	17.1%	18.9%	9.9%	13.8%
TERMINAL (d)	1/20 (5%)	6/28 (21%)	3/24 (13%)	2/27 (7%)
FIRST INCIDENCE	600	670	621	577
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.313N	P=0.528	P=0.268N	P=0.454N
POLY 1.5	P=0.335N	P=0.507	P=0.271N	P=0.484N
POLY 6	P=0.279N	P=0.564	P=0.258N	P=0.406N
COCH-ARM / FISHERS	P=0.357N	P=0.483	P=0.274N	P=0.516N
MAX-ISO-POLY-3	P=0.363N	P=0.414	P=0.173N	P=0.343N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Pleura Fibrosis				
<b>LESION RATES</b>				
OVERALL (a)	2/2 (100%)	0/1 (0%)	1/3 (33%)	2/10 (20%)
POLY-3 RATE (b)	2/2.00	0/1.00	1/3.00	2/9.26
POLY-3 PERCENT (g)	100%	0%	33.3%	21.6%
TERMINAL (d)	2/2 (100%)	0/1 (0%)	1/3 (33%)	2/8 (25%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.085N	P=0.333N	P=0.281N	P=0.059N
POLY 1.5	P=0.080N	P=0.333N	P=0.281N	P=0.056N
POLY 6	P=0.092N	P=0.333N	P=0.281N	P=0.065N
COCH-ARM / FISHERS	P=0.089N	P=0.333N	P=0.300N	P=0.091N
MAX-ISO-POLY-3	P=0.051N	(e)	P=0.078N	P=0.023N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Preputial Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	0/49 (0%)
POLY-3 RATE (b)	1/39.70	1/43.10	3/42.02	0/41.98
POLY-3 PERCENT (g)	2.5%	2.3%	7.1%	0%
TERMINAL (d)	1/20 (5%)	1/29 (3%)	1/25 (4%)	0/28 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	523	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.391N	P=0.742N	P=0.325	P=0.489N
POLY 1.5	P=0.403N	P=0.751N	P=0.315	P=0.496N
POLY 6	P=0.371N	P=0.727N	P=0.345	P=0.475N
COCH-ARM / FISHERS	P=0.416N	P=0.753N	P=0.309	P=0.505N
MAX-ISO-POLY-3	P=0.248N	P=0.476N	P=0.174	P=0.159N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Preputial Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	2/40.18	2/43.10	3/41.58	3/42.00
POLY-3 PERCENT (g)	5%	4.6%	7.2%	7.1%
TERMINAL (d)	1/20 (5%)	2/29 (7%)	2/25 (8%)	2/28 (7%)
FIRST INCIDENCE	586	729 (T)	523	725
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.384	P=0.669N	P=0.516	P=0.520
POLY 1.5	P=0.373	P=0.681N	P=0.507	P=0.505
POLY 6	P=0.403	P=0.647N	P=0.532	P=0.547
COCH-ARM / FISHERS	P=0.361	P=0.691N	P=0.500	P=0.490
MAX-ISO-POLY-3	P=0.526	P=0.471N	P=0.339	P=0.345

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Prostate Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	2/39.71	1/43.10	5/41.59	5/43.13
POLY-3 PERCENT (g)	5%	2.3%	12%	11.6%
TERMINAL (d)	1/20 (5%)	1/29 (3%)	3/25 (12%)	3/28 (11%)
FIRST INCIDENCE	726	729 (T)	537	687
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.090	P=0.471N	P=0.233	P=0.249
POLY 1.5	P=0.084	P=0.485N	P=0.225	P=0.233
POLY 6	P=0.100	P=0.448N	P=0.252	P=0.281
COCH-ARM / FISHERS	P=0.080	P=0.500N	P=0.218	P=0.218
MAX-ISO-POLY-3	P=0.142	P=0.264N	P=0.136	P=0.151

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Prostate Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	40/50 (80%)	36/50 (72%)	38/50 (76%)	34/50 (68%)
POLY-3 RATE (b)	40/48.39	36/47.16	38/48.64	34/47.49
POLY-3 PERCENT (g)	82.7%	76.3%	78.1%	71.6%
TERMINAL (d)	15/20 (75%)	22/29 (76%)	15/25 (60%)	18/28 (64%)
FIRST INCIDENCE	372	547	480	483
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.134N	P=0.296N	P=0.377N	P=0.138N
POLY 1.5	P=0.140N	P=0.276N	P=0.400N	P=0.138N
POLY 6	P=0.121N	P=0.308N	P=0.319N	P=0.130N
COCH-ARM / FISHERS	P=0.138N	P=0.241N	P=0.405N	P=0.127N
MAX-ISO-POLY-3	P=0.148N	P=0.215N	P=0.283N	P=0.092N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
Cyst Epithelial Inclusion				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	4/40.94	3/43.65	0/40.95	3/43.36
POLY-3 PERCENT (g)	9.8%	6.9%	0%	6.9%
TERMINAL (d)	1/20 (5%)	1/29 (3%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	563	582	---	674
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.367N	P=0.465N	P=0.059N	P=0.469N
POLY 1.5	P=0.369N	P=0.481N	P=0.060N	P=0.485N
POLY 6	P=0.361N	P=0.436N	P=0.057N	P=0.439N
COCH-ARM / FISHERS	P=0.371N	P=0.500N	P=0.059N	P=0.500N
MAX-ISO-POLY-3	P=0.191N	P=0.320N	P=0.019N*	P=0.323N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Hyperkeratosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	1/43.10	2/41.10	0/42.88
POLY-3 PERCENT (g)	0%	2.3%	4.9%	0%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	1/25 (4%)	0/28 (0%)
FIRST INCIDENCE	---	729 (T)	689	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.589N	P=0.516	P=0.244	(e)
POLY 1.5	P=0.603N	P=0.509	P=0.241	(e)
POLY 6	P=0.566N	P=0.530	P=0.254	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.347N	P=0.178	P=0.083	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	0/43.10	2/41.10	0/42.88
POLY-3 PERCENT (g)	0%	0%	4.9%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	1/25 (4%)	0/28 (0%)
FIRST INCIDENCE	---	---	689	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.624	(e)	P=0.244	(e)
POLY 1.5	P=0.610	(e)	P=0.241	(e)
POLY 6	P=0.647	(e)	P=0.254	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.273	(e)	P=0.083	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/40.94	1/43.33	0/40.95	0/42.88
POLY-3 PERCENT (g)	12.2%	2.3%	0%	0%
TERMINAL (d)	1/20 (5%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	563	670	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008N**	P=0.088N	P=0.030N*	P=0.026N*
POLY 1.5	P=0.008N**	P=0.094N	P=0.030N*	P=0.028N*
POLY 6	P=0.008N**	P=0.077N	P=0.028N*	P=0.023N*
COCH-ARM / FISHERS	P=0.009N**	P=0.102N	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.002N**	P=0.041N*	P=0.009N**	P=0.009N**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen</b>				
<b>Accessory Spleen</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.60	1/43.10	0/40.95	0/42.88
POLY-3 PERCENT (g)	4.9%	2.3%	0%	0%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	593	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.101N	P=0.479N	P=0.235N	P=0.225N
POLY 1.5	P=0.101N	P=0.489N	P=0.236N	P=0.231N
POLY 6	P=0.101N	P=0.462N	P=0.230N	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=0.269N	P=0.075N	P=0.075N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.70	3/43.10	0/40.95	0/42.88
POLY-3 PERCENT (g)	0%	7%	0%	0%
TERMINAL (d)	0/20 (0%)	3/29 (10%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.278N	P=0.133	(e)	(e)
POLY 1.5	P=0.293N	P=0.126	(e)	(e)
POLY 6	P=0.253N	P=0.147	(e)	(e)
COCH-ARM / FISHERS	P=0.311N	P=0.121	(e)	(e)
MAX-ISO-POLY-3	P=0.182N	P=0.051	(e)	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	1/40.02	1/43.16	4/43.19	1/43.04
POLY-3 PERCENT (g)	2.5%	2.3%	9.3%	2.3%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	642	715	438	687
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.558	P=0.744N	P=0.202	P=0.745N
POLY 1.5	P=0.542	P=0.752N	P=0.191	P=0.752N
POLY 6	P=0.585	P=0.730N	P=0.220	P=0.730N
COCH-ARM / FISHERS	P=0.526	P=0.753N	P=0.181	P=0.753N
MAX-ISO-POLY-3	P=0.370	P=0.478N	P=0.105	P=0.479N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/40.17	2/43.13	0/40.95	1/43.20
POLY-3 PERCENT (g)	5%	4.6%	0%	2.3%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	593	722	---	641
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.289N	P=0.669N	P=0.232N	P=0.475N
POLY 1.5	P=0.293N	P=0.680N	P=0.235N	P=0.487N
POLY 6	P=0.282N	P=0.647N	P=0.226N	P=0.453N
COCH-ARM / FISHERS	P=0.296N	P=0.691N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.266N	P=0.471N	P=0.075N	P=0.266N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.32	2/43.83	1/41.07	0/42.88
POLY-3 PERCENT (g)	5%	4.6%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	557	500	698	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.120N	P=0.664N	P=0.494N	P=0.223N
POLY 1.5	P=0.123N	P=0.678N	P=0.498N	P=0.230N
POLY 6	P=0.114N	P=0.640N	P=0.483N	P=0.211N
COCH-ARM / FISHERS	P=0.125N	P=0.691N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.159N	P=0.466N	P=0.276N	P=0.075N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.32	0/43.10	1/41.49	0/42.88
POLY-3 PERCENT (g)	5%	0%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	642	---	561	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.190N	P=0.222N	P=0.490N	P=0.223N
POLY 1.5	P=0.189N	P=0.229N	P=0.495N	P=0.230N
POLY 6	P=0.192N	P=0.211N	P=0.479N	P=0.212N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.075N	P=0.274N	P=0.075N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.47	1/43.68	1/41.49	0/42.88
POLY-3 PERCENT (g)	4.9%	2.3%	2.4%	0%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	591	547	561	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.151N	P=0.473N	P=0.491N	P=0.224N
POLY 1.5	P=0.153N	P=0.486N	P=0.496N	P=0.231N
POLY 6	P=0.149N	P=0.453N	P=0.481N	P=0.213N
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.121N	P=0.266N	P=0.275N	P=0.075N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	5/41.56	1/43.68	3/41.34	2/43.22
POLY-3 PERCENT (g)	12%	2.3%	7.3%	4.6%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	372	547	662	674
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.246N	P=0.089N	P=0.358N	P=0.199N
POLY 1.5	P=0.248N	P=0.096N	P=0.360N	P=0.209N
POLY 6	P=0.241N	P=0.079N	P=0.347N	P=0.180N
COCH-ARM / FISHERS	P=0.248N	P=0.102N	P=0.357N	P=0.218N
MAX-ISO-POLY-3	P=0.137N	P=0.041N*	P=0.232N	P=0.111N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Glandular Erosion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.70	2/43.16	0/40.95	1/43.13
POLY-3 PERCENT (g)	0%	4.6%	0%	2.3%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	0/25 (0%)	0/28 (0%)
FIRST INCIDENCE	---	715	---	663
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.572	P=0.256	(e)	P=0.517
POLY 1.5	P=0.556	P=0.247	(e)	P=0.508
POLY 6	P=0.601	P=0.272	(e)	P=0.531
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.357	P=0.094	(e)	P=0.179



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Testes</b>				
<b>Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.70	2/43.31	0/40.95	1/42.88
POLY-3 PERCENT (g)	0%	4.6%	0%	2.3%
TERMINAL (d)	0/20 (0%)	1/29 (3%)	0/25 (0%)	1/28 (4%)
FIRST INCIDENCE	---	674	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.570	P=0.257	(e)	P=0.515
POLY 1.5	P=0.555	P=0.247	(e)	P=0.508
POLY 6	P=0.597	P=0.274	(e)	P=0.529
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.356	P=0.095	(e)	P=0.177

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Testes: Artery</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	1/39.74	1/43.16	6/41.29	2/43.40
POLY-3 PERCENT (g)	2.5%	2.3%	14.5%	4.6%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	4/25 (16%)	0/28 (0%)
FIRST INCIDENCE	718	715	647	619
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.332	P=0.742N	P=0.060	P=0.531
POLY 1.5	P=0.311	P=0.751N	P=0.058	P=0.516
POLY 6	P=0.369	P=0.727N	P=0.067	P=0.557
COCH-ARM / FISHERS	P=0.292	P=0.753N	P=0.056	P=0.500
MAX-ISO-POLY-3	P=0.152	P=0.476N	P=0.028*	P=0.314

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Testes: Germinal Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	32/50 (64%)	42/50 (84%)	34/50 (68%)	44/50 (88%)
POLY-3 RATE (b)	32/43.80	42/47.25	34/44.79	44/46.90
POLY-3 PERCENT (g)	73.1%	88.9%	75.9%	93.8%
TERMINAL (d)	17/20 (85%)	27/29 (93%)	21/25 (84%)	28/28 (100%)
FIRST INCIDENCE	591	513	523	566
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.011*	P=0.029*	P=0.472	P=0.002**
POLY 1.5	P=0.010**	P=0.022*	P=0.440	P=0.002**
POLY 6	P=0.017*	P=0.051	P=0.553	P=0.004**
COCH-ARM / FISHERS	P=0.017*	P=0.020*	P=0.417	P=0.005**
MAX-ISO-POLY-3	P=0.003**	P=0.017*	P=0.368	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Testes: Interstitial Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	4/39.70	4/43.68	4/42.43	3/43.77
POLY-3 PERCENT (g)	10.1%	9.2%	9.4%	6.9%
TERMINAL (d)	4/20 (20%)	3/29 (10%)	1/25 (4%)	1/28 (4%)
FIRST INCIDENCE	729 (T)	547	523	381
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.369N	P=0.590N	P=0.607N	P=0.447N
POLY 1.5	P=0.388N	P=0.615N	P=0.625N	P=0.471N
POLY 6	P=0.343N	P=0.547N	P=0.573N	P=0.407N
COCH-ARM / FISHERS	P=0.410N	P=0.643N	P=0.643N	P=0.500N
MAX-ISO-POLY-3	P=0.499N	P=0.445N	P=0.461N	P=0.307N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Thyroid Gland: C-Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	23/50 (46%)	17/50 (34%)	16/50 (32%)	10/50 (20%)
POLY-3 RATE (b)	23/43.59	17/44.26	16/41.71	10/43.16
POLY-3 PERCENT (g)	52.8%	38.4%	38.4%	23.2%
TERMINAL (d)	13/20 (65%)	13/29 (45%)	14/25 (56%)	9/28 (32%)
FIRST INCIDENCE	530	576	537	654
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.003N**	P=0.120N	P=0.123N	P=0.003N**
POLY 1.5	P=0.004N**	P=0.136N	P=0.117N	P=0.003N**
POLY 6	P=0.003N**	P=0.093N	P=0.126N	P=0.002N**
COCH-ARM / FISHERS	P=0.005N**	P=0.154N	P=0.109N	P=0.005N**
MAX-ISO-POLY-3	P=0.002N**	P=0.083N	P=0.087N	P<0.001N**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Tongue: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/1 (100%)	2/3 (67%)	3/3 (100%)	1/1 (100%)
POLY-3 RATE (b)	1/1.00	2/3.00	3/3.00	1/1.00
POLY-3 PERCENT (g)	100%	66.7%	100%	100%
TERMINAL (d)	1/1 (100%)	2/3 (67%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	708
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.615	P=0.691N	(e)	(e)
POLY 1.5	P=0.615	P=0.691N	(e)	(e)
POLY 6	P=0.615	P=0.691N	(e)	(e)
COCH-ARM / FISHERS	P=0.641	P=0.750N	(e)	(e)
MAX-ISO-POLY-3	P=0.528	P=0.341N	(e)	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Tooth Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/3 (0%)	2/2 (100%)	1/1 (100%)	0/0 (0%)
POLY-3 RATE (b)	0/2.56	2/2.00	1/1.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	100%	0%
TERMINAL (d)	0/2 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	729 (T)	691	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P<0.001**	P<0.001**	(e)
POLY 1.5	(e)	P<0.001**	P<0.001**	(e)
POLY 6	(e)	P<0.001**	P=0.029*	(e)
COCH-ARM / FISHERS	P=0.137	P=0.100	P=0.250	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Tooth Malformation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/3 (67%)	0/2 (0%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	2/2.56	0/2.00	0/0.85	0/0.00
POLY-3 PERCENT (g)	78.2%	0%	0%	0%
TERMINAL (d)	2/2 (100%)	0/2 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.183N	P=0.500N	(e)
POLY 1.5	(e)	P=0.229N	P=0.497N	(e)
POLY 6	(e)	P=0.114N	P=0.532N	(e)
COCH-ARM / FISHERS	P=0.349N	P=0.300N	P=0.500N	(e)
MAX-ISO-POLY-3	(e)	P=0.020N*	P=0.135N	(e)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Urinary Bladder: Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/39.70	0/43.10	2/41.81	1/42.88
POLY-3 PERCENT (g)	0%	0%	4.8%	2.3%
TERMINAL (d)	0/20 (0%)	0/29 (0%)	0/25 (0%)	1/28 (4%)
FIRST INCIDENCE	---	---	561	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.264	(e)	P=0.248	P=0.515
POLY 1.5	P=0.255	(e)	P=0.243	P=0.508
POLY 6	P=0.281	(e)	P=0.260	P=0.529
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.197	(e)	P=0.087	P=0.177

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	2/44.84	0/46.12
POLY-3 PERCENT (g)	0%	0%	4.5%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	607	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.625	(e)	P=0.245	(e)
POLY 1.5	P=0.616	(e)	P=0.243	(e)
POLY 6	P=0.636	(e)	P=0.248	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.270	(e)	P=0.083	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/43.81	1/44.79	1/44.30	0/46.12
POLY-3 PERCENT (g)	6.9%	2.2%	2.3%	0%
TERMINAL (d)	2/31 (7%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	582	644	663	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.070N	P=0.297N	P=0.301N	P=0.110N
POLY 1.5	P=0.070N	P=0.301N	P=0.300N	P=0.112N
POLY 6	P=0.069N	P=0.288N	P=0.300N	P=0.106N
COCH-ARM / FISHERS	P=0.073N	P=0.309N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.041N*	P=0.151N	P=0.152N	P=0.038N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	14/50 (28%)	17/50 (34%)	14/50 (28%)	18/50 (36%)
POLY-3 RATE (b)	14/44.70	17/45.77	14/45.70	18/46.43
POLY-3 PERCENT (g)	31.3%	37.1%	30.6%	38.8%
TERMINAL (d)	9/31 (29%)	14/36 (39%)	8/31 (26%)	17/38 (45%)
FIRST INCIDENCE	582	516	509	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.314	P=0.359	P=0.562N	P=0.299
POLY 1.5	P=0.309	P=0.349	P=0.563N	P=0.292
POLY 6	P=0.318	P=0.379	P=0.559N	P=0.308
COCH-ARM / FISHERS	P=0.277	P=0.333	P=0.588N	P=0.260
MAX-ISO-POLY-3	P=0.374	P=0.282	P=0.471N	P=0.232

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	7/50 (14%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	4/44.58	7/44.48	8/44.75	4/46.31
POLY-3 PERCENT (g)	9%	15.7%	17.9%	8.6%
TERMINAL (d)	1/31 (3%)	7/36 (19%)	5/31 (16%)	3/38 (8%)
FIRST INCIDENCE	420	730 (T)	627	681
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.448N	P=0.259	P=0.177	P=0.622N
POLY 1.5	P=0.458N	P=0.259	P=0.180	P=0.628N
POLY 6	P=0.433N	P=0.265	P=0.177	P=0.612N
COCH-ARM / FISHERS	P=0.485N	P=0.262	P=0.178	P=0.643N
MAX-ISO-POLY-3	P=0.351N	P=0.167	P=0.108	P=0.477N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/43.32	2/45.04	3/44.23	0/46.12
POLY-3 PERCENT (g)	2.3%	4.4%	6.8%	0%
TERMINAL (d)	1/31 (3%)	1/36 (3%)	2/31 (7%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	556	685	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.310N	P=0.514	P=0.312	P=0.487N
POLY 1.5	P=0.318N	P=0.508	P=0.312	P=0.491N
POLY 6	P=0.299N	P=0.525	P=0.315	P=0.482N
COCH-ARM / FISHERS	P=0.337N	P=0.500	P=0.309	P=0.500N
MAX-ISO-POLY-3	P=0.200N	P=0.295	P=0.162	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Bone Marrow</b>				
<b>Hyperplasia Reticulum Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	2/45.04	3/44.79	0/46.12
POLY-3 PERCENT (g)	0%	4.4%	6.7%	0%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	556	627	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.497N	P=0.246	P=0.125	(e)
POLY 1.5	P=0.507N	P=0.242	P=0.123	(e)
POLY 6	P=0.482N	P=0.253	P=0.127	(e)
COCH-ARM / FISHERS	P=0.531N	P=0.247	P=0.121	(e)
MAX-ISO-POLY-3	P=0.237N	P=0.084	P=0.043*	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	6/50 (12%)	13/50 (26%)	12/50 (24%)
POLY-3 RATE (b)	11/44.78	6/45.38	13/46.14	12/47.68
POLY-3 PERCENT (g)	24.6%	13.2%	28.2%	25.2%
TERMINAL (d)	4/31 (13%)	3/36 (8%)	6/31 (19%)	7/38 (18%)
FIRST INCIDENCE	591	528	528	563
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.315	P=0.133N	P=0.439	P=0.569
POLY 1.5	P=0.298	P=0.136N	P=0.435	P=0.548
POLY 6	P=0.336	P=0.126N	P=0.446	P=0.594N
COCH-ARM / FISHERS	P=0.259	P=0.143N	P=0.408	P=0.500
MAX-ISO-POLY-3	P=0.310	P=0.085N	P=0.349	P=0.473



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Brain Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	2/43.53	3/45.41	4/44.74	5/46.40
POLY-3 PERCENT (g)	4.6%	6.6%	8.9%	10.8%
TERMINAL (d)	1/31 (3%)	0/36 (0%)	1/31 (3%)	3/38 (8%)
FIRST INCIDENCE	675	528	607	685
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.173	P=0.519	P=0.350	P=0.243
POLY 1.5	P=0.167	P=0.511	P=0.348	P=0.235
POLY 6	P=0.181	P=0.535	P=0.354	P=0.255
COCH-ARM / FISHERS	P=0.151	P=0.500	P=0.339	P=0.218
MAX-ISO-POLY-3	P=0.235	P=0.344	P=0.213	P=0.145

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Clitoral Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	2/43.52	0/44.48	0/44.05	3/46.12
POLY-3 PERCENT (g)	4.6%	0%	0%	6.5%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	3/38 (8%)
FIRST INCIDENCE	691	---	---	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.249	P=0.232N	P=0.234N	P=0.526
POLY 1.5	P=0.248	P=0.234N	P=0.234N	P=0.519
POLY 6	P=0.248	P=0.227N	P=0.234N	P=0.537
COCH-ARM / FISHERS	P=0.245	P=0.247N	P=0.247N	P=0.500
MAX-ISO-POLY-3	P=0.127	P=0.076N	P=0.076N	P=0.351

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Clitoral Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	4/43.65	4/44.48	4/44.25	2/46.12
POLY-3 PERCENT (g)	9.2%	9%	9%	4.3%
TERMINAL (d)	1/31 (3%)	4/36 (11%)	1/31 (3%)	2/38 (5%)
FIRST INCIDENCE	691	730 (T)	704	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.232N	P=0.633N	P=0.636N	P=0.312N
POLY 1.5	P=0.238N	P=0.637N	P=0.635N	P=0.319N
POLY 6	P=0.224N	P=0.623N	P=0.636N	P=0.302N
COCH-ARM / FISHERS	P=0.256N	P=0.643N	P=0.643N	P=0.339N
MAX-ISO-POLY-3	P=0.331N	P=0.488N	P=0.491N	P=0.188N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Lens</b>				
<b>Cataract</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/49 (4%)	6/50 (12%)	7/49 (14%)	11/50 (22%)
POLY-3 RATE (b)	2/42.67	6/44.69	7/43.76	11/46.12
POLY-3 PERCENT (g)	4.7%	13.4%	16%	23.9%
TERMINAL (d)	1/31 (3%)	4/36 (11%)	6/31 (19%)	11/38 (29%)
FIRST INCIDENCE	717	680	515	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.009**	P=0.148	P=0.084	P=0.010**
POLY 1.5	P=0.008**	P=0.144	P=0.084	P=0.010**
POLY 6	P=0.009**	P=0.156	P=0.084	P=0.011*
COCH-ARM / FISHERS	P=0.007**	P=0.141	P=0.080	P=0.008**
MAX-ISO-POLY-3	P=0.009**	P=0.081	P=0.043*	P=0.005**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Retina</b>				
<b>Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/49 (8%)	7/50 (14%)	7/49 (14%)	7/50 (14%)
POLY-3 RATE (b)	4/42.67	7/44.69	7/43.21	7/46.12
POLY-3 PERCENT (g)	9.4%	15.7%	16.2%	15.2%
TERMINAL (d)	3/31 (10%)	5/36 (14%)	6/31 (19%)	7/38 (18%)
FIRST INCIDENCE	717	680	704	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.320	P=0.287	P=0.267	P=0.307
POLY 1.5	P=0.309	P=0.281	P=0.269	P=0.297
POLY 6	P=0.334	P=0.302	P=0.266	P=0.321
COCH-ARM / FISHERS	P=0.279	P=0.274	P=0.262	P=0.274
MAX-ISO-POLY-3	P=0.333	P=0.193	P=0.174	P=0.212

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Eye: Sclera</b>				
<b>Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.62	1/44.67	1/43.16	0/46.12
POLY-3 PERCENT (g)	0%	2.2%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	680	717	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.575N	P=0.509	P=0.503	(e)
POLY 1.5	P=0.580N	P=0.507	P=0.503	(e)
POLY 6	P=0.569N	P=0.515	P=0.503	(e)
COCH-ARM / FISHERS	P=0.592N	P=0.505	P=0.500	(e)
MAX-ISO-POLY-3	P=0.412N	P=0.169	P=0.162	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Harderian Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/43.32	1/44.48	2/44.05	0/46.12
POLY-3 PERCENT (g)	4.6%	2.3%	4.5%	0%
TERMINAL (d)	2/31 (7%)	1/36 (3%)	2/31 (7%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.187N	P=0.491N	P=0.688N	P=0.223N
POLY 1.5	P=0.191N	P=0.495N	P=0.688N	P=0.228N
POLY 6	P=0.183N	P=0.481N	P=0.687N	P=0.217N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.159N	P=0.275N	P=0.492N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	22/50 (44%)	24/50 (48%)	32/50 (64%)	34/50 (68%)
POLY-3 RATE (b)	22/44.38	24/44.78	32/46.41	34/46.99
POLY-3 PERCENT (g)	49.6%	53.6%	69%	72.4%
TERMINAL (d)	19/31 (61%)	22/36 (61%)	22/31 (71%)	30/38 (79%)
FIRST INCIDENCE	420	680	425	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.006**	P=0.432	P=0.040*	P=0.016*
POLY 1.5	P=0.006**	P=0.423	P=0.040*	P=0.015*
POLY 6	P=0.009**	P=0.476	P=0.046*	P=0.022*
COCH-ARM / FISHERS	P=0.005**	P=0.421	P=0.035*	P=0.013*
MAX-ISO-POLY-3	P=0.010**	P=0.348	P=0.027*	P=0.011*



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Heart: Atrium</b>				
<b>Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.314N	P=0.495N	P=0.497N	P=0.487N
POLY 1.5	P=0.311N	P=0.497N	P=0.497N	P=0.491N
POLY 6	P=0.319N	P=0.489N	P=0.496N	P=0.482N
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

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Islets, Pancreatic Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.314N	P=0.495N	P=0.497N	P=0.487N
POLY 1.5	P=0.311N	P=0.497N	P=0.497N	P=0.491N
POLY 6	P=0.319N	P=0.489N	P=0.496N	P=0.482N
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

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney</b>				
<b>Nephropathy Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	40/50 (80%)	41/50 (82%)	44/50 (88%)	49/50 (98%)
POLY-3 RATE (b)	40/45.91	41/46.47	44/47.99	49/49.22
POLY-3 PERCENT (g)	87.1%	88.2%	91.7%	99.6%
TERMINAL (d)	29/31 (94%)	32/36 (89%)	30/31 (97%)	38/38 (100%)
FIRST INCIDENCE	591	438	515	488
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.006**	P=0.567	P=0.336	P=0.008**
POLY 1.5	P=0.004**	P=0.547	P=0.301	P=0.006**
POLY 6	P=0.012*	P=0.622	P=0.394	P=0.018*
COCH-ARM / FISHERS	P=0.003**	P=0.500	P=0.207	P=0.004**
MAX-ISO-POLY-3	P=0.009**	P=0.429	P=0.219	P=0.003**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Cortex, Renal Tubule Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.81	0/44.48	2/45.18	0/46.12
POLY-3 PERCENT (g)	2.3%	0%	4.4%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	582	---	425	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.447N	P=0.497N	P=0.511	P=0.490N
POLY 1.5	P=0.450N	P=0.498N	P=0.509	P=0.493N
POLY 6	P=0.443N	P=0.493N	P=0.513	P=0.485N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.332N	P=0.158N	P=0.292	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Cortex, Renal Tubule Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Papilla Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	28/50 (56%)	16/50 (32%)	23/50 (46%)	20/50 (40%)
POLY-3 RATE (b)	28/44.59	16/45.19	23/45.67	20/46.43
POLY-3 PERCENT (g)	62.8%	35.4%	50.4%	43.1%
TERMINAL (d)	22/31 (71%)	14/36 (39%)	14/31 (45%)	19/38 (50%)
FIRST INCIDENCE	591	528	528	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.128N	P=0.006N**	P=0.157N	P=0.042N*
POLY 1.5	P=0.141N	P=0.008N**	P=0.168N	P=0.051N
POLY 6	P=0.116N	P=0.004N**	P=0.139N	P=0.032N*
COCH-ARM / FISHERS	P=0.186N	P=0.013N*	P=0.212N	P=0.080N
MAX-ISO-POLY-3	P=0.043N*	P=0.003N**	P=0.112N	P=0.028N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Pelvis, Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	4/50 (8%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.32	4/44.48	1/44.37	2/46.66
POLY-3 PERCENT (g)	0%	9%	2.3%	4.3%
TERMINAL (d)	0/31 (0%)	4/36 (11%)	0/31 (0%)	1/38 (3%)
FIRST INCIDENCE	---	730 (T)	641	563
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.463	P=0.063	P=0.505	P=0.254
POLY 1.5	P=0.449	P=0.062	P=0.504	P=0.249
POLY 6	P=0.483	P=0.067	P=0.507	P=0.262
COCH-ARM / FISHERS	P=0.423	P=0.059	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.175	P=0.022*	P=0.164	P=0.092

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Kidney: Pelvis, Transitional Epithelium Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/43.87	1/44.77	2/44.63	2/46.61
POLY-3 PERCENT (g)	4.6%	2.2%	4.5%	4.3%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	628	651	641	648
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.550	P=0.493N	P=0.688N	P=0.672N
POLY 1.5	P=0.543	P=0.496N	P=0.688N	P=0.678N
POLY 6	P=0.557	P=0.485N	P=0.687N	P=0.662N
COCH-ARM / FISHERS	P=0.526	P=0.500N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.632	P=0.276N	P=0.492N	P=0.475N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
Larynx				
Foreign Body				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/43.62	4/44.48	4/45.14	3/46.12
POLY-3 PERCENT (g)	6.9%	9%	8.9%	6.5%
TERMINAL (d)	2/31 (7%)	4/36 (11%)	2/31 (7%)	3/38 (8%)
FIRST INCIDENCE	648	730 (T)	509	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.504N	P=0.511	P=0.519	P=0.636N
POLY 1.5	P=0.513N	P=0.506	P=0.515	P=0.644N
POLY 6	P=0.493N	P=0.522	P=0.525	P=0.626N
COCH-ARM / FISHERS	P=0.537N	P=0.500	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.599N	P=0.358	P=0.366	P=0.471N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Larynx Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	2/50 (4%)	6/50 (12%)	9/50 (18%)
POLY-3 RATE (b)	6/43.83	2/44.48	6/45.40	9/46.23
POLY-3 PERCENT (g)	13.7%	4.5%	13.2%	19.5%
TERMINAL (d)	4/31 (13%)	2/36 (6%)	2/31 (7%)	8/38 (21%)
FIRST INCIDENCE	648	730 (T)	509	703
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.108	P=0.127N	P=0.596N	P=0.326
POLY 1.5	P=0.104	P=0.130N	P=0.601N	P=0.315
POLY 6	P=0.111	P=0.121N	P=0.588N	P=0.341
COCH-ARM / FISHERS	P=0.095	P=0.134N	P=0.620N	P=0.288
MAX-ISO-POLY-3	P=0.116	P=0.067N	P=0.473N	P=0.238

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Larynx: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/43.62	1/44.48	0/44.05	1/46.12
POLY-3 PERCENT (g)	6.9%	2.3%	0%	2.2%
TERMINAL (d)	2/31 (7%)	1/36 (3%)	0/31 (0%)	1/38 (3%)
FIRST INCIDENCE	648	730 (T)	---	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.197N	P=0.298N	P=0.117N	P=0.285N
POLY 1.5	P=0.198N	P=0.301N	P=0.116N	P=0.291N
POLY 6	P=0.198N	P=0.290N	P=0.117N	P=0.277N
COCH-ARM / FISHERS	P=0.200N	P=0.309N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.082N	P=0.151N	P=0.038N*	P=0.147N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
Liver				
Angiectasis				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	4/50 (8%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/43.32	4/44.64	1/44.05	4/46.43
POLY-3 PERCENT (g)	2.3%	9%	2.3%	8.6%
TERMINAL (d)	1/31 (3%)	2/36 (6%)	1/31 (3%)	3/38 (8%)
FIRST INCIDENCE	730 (T)	708	730 (T)	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.246	P=0.188	P=0.757N	P=0.200
POLY 1.5	P=0.238	P=0.184	P=0.757N	P=0.193
POLY 6	P=0.258	P=0.197	P=0.756N	P=0.211
COCH-ARM / FISHERS	P=0.221	P=0.181	P=0.753N	P=0.181
MAX-ISO-POLY-3	P=0.165	P=0.092	P=0.495N	P=0.104

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	25/50 (50%)	20/50 (40%)	23/50 (46%)	22/50 (44%)
POLY-3 RATE (b)	25/44.60	20/45.76	23/46.04	22/47.08
POLY-3 PERCENT (g)	56.1%	43.7%	50%	46.7%
TERMINAL (d)	21/31 (68%)	18/36 (50%)	16/31 (52%)	19/38 (50%)
FIRST INCIDENCE	582	474	509	563
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.312N	P=0.163N	P=0.353N	P=0.244N
POLY 1.5	P=0.337N	P=0.180N	P=0.368N	P=0.273N
POLY 6	P=0.280N	P=0.135N	P=0.324N	P=0.204N
COCH-ARM / FISHERS	P=0.405N	P=0.211N	P=0.421N	P=0.344N
MAX-ISO-POLY-3	P=0.305N	P=0.119N	P=0.280N	P=0.189N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	15/50 (30%)	8/50 (16%)	12/50 (24%)	19/50 (38%)
POLY-3 RATE (b)	15/44.46	8/45.42	12/44.49	19/46.77
POLY-3 PERCENT (g)	33.7%	17.6%	27%	40.6%
TERMINAL (d)	11/31 (36%)	4/36 (11%)	10/31 (32%)	17/38 (45%)
FIRST INCIDENCE	582	528	631	563
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.101	P=0.063N	P=0.321N	P=0.321
POLY 1.5	P=0.099	P=0.068N	P=0.315N	P=0.305
POLY 6	P=0.102	P=0.054N	P=0.325N	P=0.344
COCH-ARM / FISHERS	P=0.089	P=0.077N	P=0.326N	P=0.263
MAX-ISO-POLY-3	P=0.092	P=0.039N*	P=0.243N	P=0.253

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Degeneration Cystic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	1/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	1/31 (3%)	0/38 (0%)
FIRST INCIDENCE	---	---	730 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.717	(e)	P=0.503	(e)
POLY 1.5	P=0.710	(e)	P=0.503	(e)
POLY 6	P=0.725	(e)	P=0.504	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.401	(e)	P=0.163	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	2/45.22	0/46.12
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	425	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.625	(e)	P=0.247	(e)
POLY 1.5	P=0.616	(e)	P=0.245	(e)
POLY 6	P=0.636	(e)	P=0.250	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.272	(e)	P=0.085	(e)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Hepatodiaphragmatic Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	6/50 (12%)	9/50 (18%)	6/50 (12%)
POLY-3 RATE (b)	5/44.32	6/45.39	9/45.19	6/46.90
POLY-3 PERCENT (g)	11.3%	13.2%	19.9%	12.8%
TERMINAL (d)	4/31 (13%)	4/36 (11%)	6/31 (19%)	5/38 (13%)
FIRST INCIDENCE	38	528	528	442
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.466	P=0.517	P=0.202	P=0.540
POLY 1.5	P=0.447	P=0.503	P=0.198	P=0.523
POLY 6	P=0.487	P=0.543	P=0.210	P=0.562
COCH-ARM / FISHERS	P=0.416	P=0.500	P=0.194	P=0.500
MAX-ISO-POLY-3	P=0.409	P=0.390	P=0.132	P=0.413

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/43.50	0/44.48	2/44.20	0/46.12
POLY-3 PERCENT (g)	4.6%	0%	4.5%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	697	---	708	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.237N	P=0.232N	P=0.688N	P=0.224N
POLY 1.5	P=0.239N	P=0.234N	P=0.688N	P=0.228N
POLY 6	P=0.235N	P=0.227N	P=0.688N	P=0.219N
COCH-ARM / FISHERS	P=0.247N	P=0.247N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.120N	P=0.076N	P=0.493N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
Liver				
Vacuolization Cytoplasmic				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	6/45.59	2/44.55	2/44.05	3/46.23
POLY-3 PERCENT (g)	13.2%	4.5%	4.5%	6.5%
TERMINAL (d)	1/31 (3%)	1/36 (3%)	2/31 (7%)	2/38 (5%)
FIRST INCIDENCE	420	712	730 (T)	703

<b>STATISTICAL TESTS</b>				
POLY 3	P=0.226N	P=0.140N	P=0.144N	P=0.235N
POLY 1.5	P=0.227N	P=0.138N	P=0.137N	P=0.235N
POLY 6	P=0.226N	P=0.139N	P=0.151N	P=0.232N
COCH-ARM / FISHERS	P=0.234N	P=0.134N	P=0.134N	P=0.243N
MAX-ISO-POLY-3	P=0.109N	P=0.075N	P=0.079N	P=0.143N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Bile Duct Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.50	0/44.48	0/44.05	1/46.43
POLY-3 PERCENT (g)	4.6%	0%	0%	2.2%
TERMINAL (d)	1/31 (3%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	682	---	---	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.465N	P=0.232N	P=0.234N	P=0.477N
POLY 1.5	P=0.463N	P=0.234N	P=0.234N	P=0.484N
POLY 6	P=0.469N	P=0.227N	P=0.234N	P=0.467N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.132N	P=0.076N	P=0.076N	P=0.268N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Centrilobular Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<hr/>				
Liver: Hepatocyte Regeneration				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
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)

---

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Liver: Periportal Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/43.32	2/45.10	3/44.95	3/46.62
POLY-3 PERCENT (g)	0%	4.4%	6.7%	6.4%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	1/31 (3%)	1/38 (3%)
FIRST INCIDENCE	---	528	591	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.132	P=0.246	P=0.125	P=0.132
POLY 1.5	P=0.125	P=0.242	P=0.124	P=0.128
POLY 6	P=0.142	P=0.254	P=0.128	P=0.140
COCH-ARM / FISHERS	P=0.111	P=0.247	P=0.121	P=0.121
MAX-ISO-POLY-3	P=0.115	P=0.085	P=0.043*	P=0.050*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.32	1/45.26	0/44.05	0/46.12
POLY-3 PERCENT (g)	4.6%	2.2%	0%	0%
TERMINAL (d)	2/31 (7%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	438	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.100N	P=0.485N	P=0.233N	P=0.223N
POLY 1.5	P=0.100N	P=0.491N	P=0.233N	P=0.228N
POLY 6	P=0.100N	P=0.474N	P=0.232N	P=0.217N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.272N	P=0.076N	P=0.076N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	1/45.26	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	438	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.559N	P=0.509	(e)	(e)
POLY 1.5	P=0.561N	P=0.505	(e)	(e)
POLY 6	P=0.553N	P=0.515	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.395N	P=0.169	(e)	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	16/50 (32%)	14/50 (28%)	21/50 (42%)
POLY-3 RATE (b)	12/43.32	16/44.79	14/44.43	21/46.65
POLY-3 PERCENT (g)	27.7%	35.7%	31.5%	45%
TERMINAL (d)	12/31 (39%)	14/36 (39%)	11/31 (36%)	18/38 (47%)
FIRST INCIDENCE	730 (T)	680	663	645
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.061	P=0.280	P=0.437	P=0.065
POLY 1.5	P=0.055	P=0.266	P=0.433	P=0.057
POLY 6	P=0.073	P=0.315	P=0.451	P=0.081
COCH-ARM / FISHERS	P=0.042*	P=0.252	P=0.410	P=0.044*
MAX-ISO-POLY-3	P=0.072	P=0.212	P=0.348	P=0.047*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	5/50 (10%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	6/43.32	5/44.67	4/45.04	3/46.12
POLY-3 PERCENT (g)	13.9%	11.2%	8.9%	6.5%
TERMINAL (d)	6/31 (19%)	4/36 (11%)	2/31 (7%)	3/38 (8%)
FIRST INCIDENCE	730 (T)	680	509	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.157N	P=0.478N	P=0.345N	P=0.211N
POLY 1.5	P=0.163N	P=0.488N	P=0.351N	P=0.221N
POLY 6	P=0.149N	P=0.456N	P=0.334N	P=0.197N
COCH-ARM / FISHERS	P=0.179N	P=0.500N	P=0.370N	P=0.243N
MAX-ISO-POLY-3	P=0.213N	P=0.355N	P=0.236N	P=0.132N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolar Epithelium Metaplasia Mucous</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	21/50 (42%)	30/50 (60%)	24/50 (48%)	34/50 (68%)
POLY-3 RATE (b)	21/44.34	30/45.96	24/45.47	34/48.35
POLY-3 PERCENT (g)	47.4%	65.3%	52.8%	70.3%
TERMINAL (d)	18/31 (58%)	24/36 (67%)	20/31 (65%)	26/38 (68%)
FIRST INCIDENCE	591	438	528	488
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.034*	P=0.060	P=0.379	P=0.017*
POLY 1.5	P=0.026*	P=0.056	P=0.376	P=0.012*
POLY 6	P=0.051	P=0.075	P=0.388	P=0.028*
COCH-ARM / FISHERS	P=0.016*	P=0.055	P=0.344	P=0.008**
MAX-ISO-POLY-3	P=0.019*	P=0.040*	P=0.302	P=0.012*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Alveolus Proteinosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	5/50 (10%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/43.32	5/44.48	3/44.08	2/46.12
POLY-3 PERCENT (g)	0%	11.2%	6.8%	4.3%
TERMINAL (d)	0/31 (0%)	5/36 (14%)	2/31 (7%)	2/38 (5%)
FIRST INCIDENCE	---	730 (T)	723	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.502	P=0.033*	P=0.122	P=0.251
POLY 1.5	P=0.488	P=0.032*	P=0.122	P=0.247
POLY 6	P=0.523	P=0.035*	P=0.122	P=0.258
COCH-ARM / FISHERS	P=0.456	P=0.028*	P=0.121	P=0.247
MAX-ISO-POLY-3	P=0.107	P=0.011*	P=0.040*	P=0.090

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Bronchiole Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/43.32	3/44.48	2/44.05	3/46.12
POLY-3 PERCENT (g)	2.3%	6.8%	4.5%	6.5%
TERMINAL (d)	1/31 (3%)	3/36 (8%)	2/31 (7%)	3/38 (8%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.331	P=0.315	P=0.506	P=0.328
POLY 1.5	P=0.323	P=0.311	P=0.506	P=0.321
POLY 6	P=0.343	P=0.324	P=0.507	P=0.339
COCH-ARM / FISHERS	P=0.302	P=0.309	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.308	P=0.164	P=0.287	P=0.177



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Bronchiole, Glands Degeneration Mucoïd</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/43.32	2/44.48	2/44.05	0/46.12
POLY-3 PERCENT (g)	4.6%	4.5%	4.5%	0%
TERMINAL (d)	2/31 (7%)	2/36 (6%)	2/31 (7%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.150N	P=0.685N	P=0.688N	P=0.223N
POLY 1.5	P=0.154N	P=0.689N	P=0.688N	P=0.228N
POLY 6	P=0.145N	P=0.675N	P=0.687N	P=0.217N
COCH-ARM / FISHERS	P=0.163N	P=0.691N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.193N	P=0.489N	P=0.492N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lung: Mediastinum Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/3 (0%)	0/5 (0%)	0/3 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/1.35	0/4.93	0/2.38	0/1.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/4 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/3 (0%)	2/5 (40%)	0/3 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/1.35	2/5.00	0/2.38	0/1.12
POLY-3 PERCENT (g)	0%	40%	0%	0%
TERMINAL (d)	0/0 (0%)	1/4 (25%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	712	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.382N	P=0.546	(e)	(e)
POLY 1.5	P=0.438N	P=0.464	(e)	(e)
POLY 6	P=0.362N	P=0.628	(e)	(e)
COCH-ARM / FISHERS	P=0.518N	P=0.357	(e)	(e)
MAX-ISO-POLY-3	P=0.509N	P=0.313	(e)	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Bronchial Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/3 (0%)	0/5 (0%)	0/3 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/1.35	0/4.93	0/2.38	0/1.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/4 (0%)	0/2 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/33 (0%)	0/36 (0%)	0/40 (0%)	0/34 (0%)
POLY-3 RATE (b)	0/27.12	0/31.45	0/34.62	0/30.40
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/25 (0%)	0/24 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/33 (6%)	0/36 (0%)	0/40 (0%)	0/34 (0%)
POLY-3 RATE (b)	2/27.75	0/31.45	0/34.62	0/30.40
POLY-3 PERCENT (g)	7.2%	0%	0%	0%
TERMINAL (d)	1/18 (6%)	0/25 (0%)	0/24 (0%)	0/24 (0%)
FIRST INCIDENCE	522	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.108N	P=0.208N	P=0.188N	P=0.216N
POLY 1.5	P=0.106N	P=0.212N	P=0.188N	P=0.219N
POLY 6	P=0.112N	P=0.200N	P=0.186N	P=0.210N
COCH-ARM / FISHERS	P=0.106N	P=0.225N	P=0.201N	P=0.239N
MAX-ISO-POLY-3	P=0.025N*	P=0.070N	P=0.064N	P=0.072N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/33 (3%)	0/36 (0%)	0/40 (0%)	0/34 (0%)
POLY-3 RATE (b)	1/27.17	0/31.45	0/34.62	0/30.40
POLY-3 PERCENT (g)	3.7%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/25 (0%)	0/24 (0%)	0/24 (0%)
FIRST INCIDENCE	717	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.311N	P=0.471N	P=0.452N	P=0.478N
POLY 1.5	P=0.306N	P=0.476N	P=0.454N	P=0.482N
POLY 6	P=0.320N	P=0.462N	P=0.449N	P=0.471N
COCH-ARM / FISHERS	P=0.297N	P=0.478N	P=0.452N	P=0.493N
MAX-ISO-POLY-3	P=0.110N	P=0.152N	P=0.145N	P=0.156N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Lymph Node, Mediastinal Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/33 (6%)	0/36 (0%)	1/40 (3%)	0/34 (0%)
POLY-3 RATE (b)	2/27.75	0/31.45	1/34.62	0/30.40
POLY-3 PERCENT (g)	7.2%	0%	2.9%	0%
TERMINAL (d)	1/18 (6%)	0/25 (0%)	1/24 (4%)	0/24 (0%)
FIRST INCIDENCE	522	---	730 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.176N	P=0.208N	P=0.423N	P=0.216N
POLY 1.5	P=0.175N	P=0.212N	P=0.423N	P=0.219N
POLY 6	P=0.179N	P=0.200N	P=0.421N	P=0.210N
COCH-ARM / FISHERS	P=0.177N	P=0.225N	P=0.427N	P=0.239N
MAX-ISO-POLY-3	P=0.066N	P=0.070N	P=0.230N	P=0.072N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mammary Gland</b>				
<b>Galactocele</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/43.32	2/44.48	4/44.67	2/46.12
POLY-3 PERCENT (g)	2.3%	4.5%	9%	4.3%
TERMINAL (d)	1/31 (3%)	2/36 (6%)	1/31 (3%)	2/38 (5%)
FIRST INCIDENCE	730 (T)	730 (T)	607	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.424	P=0.509	P=0.188	P=0.522
POLY 1.5	P=0.413	P=0.505	P=0.186	P=0.515
POLY 6	P=0.439	P=0.519	P=0.192	P=0.532
COCH-ARM / FISHERS	P=0.387	P=0.500	P=0.181	P=0.500
MAX-ISO-POLY-3	P=0.297	P=0.291	P=0.092	P=0.304

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mesentery</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/10 (100%)	18/18 (100%)	18/18 (100%)	14/14 (100%)
POLY-3 RATE (b)	10/10.00	18/18.00	18/18.00	14/14.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	7/7 (100%)	13/13 (100%)	14/14 (100%)	12/12 (100%)
FIRST INCIDENCE	522	196	591	681
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Mesentery: Fat Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/18 (0%)	0/18 (0%)	1/14 (7%)
POLY-3 RATE (b)	0/8.99	0/15.90	0/17.00	1/13.81
POLY-3 PERCENT (g)	0%	0%	0%	7.2%
TERMINAL (d)	0/7 (0%)	0/13 (0%)	0/14 (0%)	0/12 (0%)
FIRST INCIDENCE	---	---	---	703
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.210	(e)	(e)	P=0.584
POLY 1.5	P=0.206	(e)	(e)	P=0.577
POLY 6	P=0.215	(e)	(e)	P=0.594
COCH-ARM / FISHERS	P=0.195	(e)	(e)	P=0.583
MAX-ISO-POLY-3	P=0.208	(e)	(e)	P=0.240

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	1/43.32	1/44.48	2/44.06	5/46.26
POLY-3 PERCENT (g)	2.3%	2.3%	4.5%	10.8%
TERMINAL (d)	1/31 (3%)	1/36 (3%)	1/31 (3%)	4/38 (11%)
FIRST INCIDENCE	730 (T)	730 (T)	727	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.032*	P=0.755N	P=0.506	P=0.117
POLY 1.5	P=0.031*	P=0.757N	P=0.506	P=0.112
POLY 6	P=0.034*	P=0.749N	P=0.507	P=0.125
COCH-ARM / FISHERS	P=0.029*	P=0.753N	P=0.500	P=0.102
MAX-ISO-POLY-3	P=0.049*	P=0.492N	P=0.287	P=0.059

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	1/50 (2%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	7/44.18	1/44.48	4/45.03	4/46.26
POLY-3 PERCENT (g)	15.9%	2.3%	8.9%	8.7%
TERMINAL (d)	5/31 (16%)	1/36 (3%)	2/31 (7%)	3/38 (8%)
FIRST INCIDENCE	582	730 (T)	425	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.341N	P=0.029N*	P=0.249N	P=0.234N
POLY 1.5	P=0.346N	P=0.030N*	P=0.250N	P=0.242N
POLY 6	P=0.337N	P=0.027N*	P=0.248N	P=0.223N
COCH-ARM / FISHERS	P=0.362N	P=0.030N*	P=0.262N	P=0.262N
MAX-ISO-POLY-3	P=0.101N	P=0.012N*	P=0.161N	P=0.153N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Glands Dilatation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	6/50 (12%)	10/50 (20%)	16/50 (32%)
POLY-3 RATE (b)	0/43.32	6/44.55	10/44.22	16/46.23
POLY-3 PERCENT (g)	0%	13.5%	22.6%	34.6%
TERMINAL (d)	0/31 (0%)	5/36 (14%)	7/31 (23%)	15/38 (40%)
FIRST INCIDENCE	---	712	708	703
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.017*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.016*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.018*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.013*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.006**	P<0.001**	P<0.001**



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Nasolacrimal Duct Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/43.32	2/44.48	1/44.05	1/46.12
POLY-3 PERCENT (g)	6.9%	4.5%	2.3%	2.2%
TERMINAL (d)	3/31 (10%)	2/36 (6%)	1/31 (3%)	1/38 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.189N	P=0.488N	P=0.299N	P=0.283N
POLY 1.5	P=0.192N	P=0.493N	P=0.299N	P=0.290N
POLY 6	P=0.186N	P=0.475N	P=0.297N	P=0.273N
COCH-ARM / FISHERS	P=0.199N	P=0.500N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.212N	P=0.315N	P=0.151N	P=0.146N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	47/50 (94%)	50/50 (100%)	46/50 (92%)
POLY-3 RATE (b)	0/43.32	47/47.51	50/50.00	46/49.52
POLY-3 PERCENT (g)	0%	98.9%	100%	92.9%
TERMINAL (d)	0/31 (0%)	36/36 (100%)	31/31 (100%)	36/38 (95%)
FIRST INCIDENCE	---	516	425	442
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Degeneration Hyaline</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.71	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	6.9%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	677	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.046N*	P=0.115N	P=0.117N	P=0.109N
POLY 1.5	P=0.046N*	P=0.117N	P=0.116N	P=0.112N
POLY 6	P=0.047N*	P=0.112N	P=0.118N	P=0.106N
COCH-ARM / FISHERS	P=0.047N*	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.009N**	P=0.038N*	P=0.038N*	P=0.038N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Hyperplasia Basal Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	48/50 (96%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	0/43.32	48/48.46	50/50.00	49/50.00
POLY-3 PERCENT (g)	0%	99.1%	100%	98%
TERMINAL (d)	0/31 (0%)	36/36 (100%)	31/31 (100%)	37/38 (97%)
FIRST INCIDENCE	---	438	425	442
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	16/50 (32%)	15/50 (30%)	19/50 (38%)
POLY-3 RATE (b)	0/43.32	16/45.23	15/46.09	19/46.31
POLY-3 PERCENT (g)	0%	35.4%	32.6%	41%
TERMINAL (d)	0/31 (0%)	13/36 (36%)	9/31 (29%)	18/38 (47%)
FIRST INCIDENCE	---	528	528	681
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	41/50 (82%)	43/50 (86%)	49/50 (98%)
POLY-3 RATE (b)	0/43.32	41/45.49	43/47.34	49/50.00
POLY-3 PERCENT (g)	0%	90.1%	90.8%	98%
TERMINAL (d)	0/31 (0%)	34/36 (94%)	29/31 (94%)	37/38 (97%)
FIRST INCIDENCE	---	644	515	442
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Olfactory Epithelium Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	8/50 (16%)	13/50 (26%)
POLY-3 RATE (b)	0/43.32	2/44.48	8/46.31	13/47.61
POLY-3 PERCENT (g)	0%	4.5%	17.3%	27.3%
TERMINAL (d)	0/31 (0%)	2/36 (6%)	2/31 (7%)	8/38 (21%)
FIRST INCIDENCE	---	730 (T)	528	563
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.243	P=0.005**	P<0.001**
POLY 1.5	P<0.001**	P=0.240	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.249	P=0.006**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.081	P=0.002**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	1/50 (2%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	7/44.18	1/44.48	2/44.06	5/46.26
POLY-3 PERCENT (g)	15.9%	2.3%	4.5%	10.8%
TERMINAL (d)	5/31 (16%)	1/36 (3%)	1/31 (3%)	4/38 (11%)
FIRST INCIDENCE	582	730 (T)	727	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.469N	P=0.029N*	P=0.078N	P=0.347N
POLY 1.5	P=0.471N	P=0.030N*	P=0.077N	P=0.356N
POLY 6	P=0.468N	P=0.027N*	P=0.080N	P=0.333N
COCH-ARM / FISHERS	P=0.482N	P=0.030N*	P=0.080N	P=0.380N
MAX-ISO-POLY-3	P=0.071N	P=0.012N*	P=0.038N*	P=0.246N



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Nose: Respiratory Epithelium Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	7/50 (14%)	11/50 (22%)	12/50 (24%)
POLY-3 RATE (b)	1/43.32	7/44.50	11/44.17	12/46.12
POLY-3 PERCENT (g)	2.3%	15.7%	24.9%	26%
TERMINAL (d)	1/31 (3%)	6/36 (17%)	9/31 (29%)	12/38 (32%)
FIRST INCIDENCE	730 (T)	725	704	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.003**	P=0.032*	P=0.002**	P<0.001**
POLY 1.5	P=0.002**	P=0.032*	P=0.002**	P<0.001**
POLY 6	P=0.003**	P=0.035*	P=0.002**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.030*	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P=0.002**	P=0.014*	P<0.001**	P<0.001**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Oral Mucosa: Pharyngeal Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/1 (100%)	0/0 (0%)	1/1 (100%)	1/1 (100%)
POLY-3 RATE (b)	1/1.00	0/0.00	1/1.00	1/1.00
POLY-3 PERCENT (g)	100%	0%	100%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)	1/1 (100%)
FIRST INCIDENCE	691	---	730 (T)	730 (T)
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
Ovary Cyst				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	4/50 (8%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	6/44.33	4/44.48	7/45.35	9/46.65
POLY-3 PERCENT (g)	13.5%	9%	15.4%	19.3%
TERMINAL (d)	4/31 (13%)	4/36 (11%)	4/31 (13%)	7/38 (18%)
FIRST INCIDENCE	522	730 (T)	528	648
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.167	P=0.367N	P=0.518	P=0.324
POLY 1.5	P=0.161	P=0.369N	P=0.515	P=0.314
POLY 6	P=0.177	P=0.357N	P=0.524	P=0.343
COCH-ARM / FISHERS	P=0.143	P=0.370N	P=0.500	P=0.288
MAX-ISO-POLY-3	P=0.230	P=0.251N	P=0.399	P=0.236

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.45	1/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	4.6%	2.3%	0%	0%
TERMINAL (d)	1/31 (3%)	1/36 (3%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	697	730 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.099N	P=0.492N	P=0.234N	P=0.224N
POLY 1.5	P=0.099N	P=0.495N	P=0.234N	P=0.228N
POLY 6	P=0.099N	P=0.483N	P=0.234N	P=0.218N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.276N	P=0.076N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/49 (6%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/42.51	2/45.23	4/44.25	4/46.30
POLY-3 PERCENT (g)	7.1%	4.4%	9%	8.6%
TERMINAL (d)	3/31 (10%)	0/36 (0%)	2/31 (7%)	3/38 (8%)
FIRST INCIDENCE	730 (T)	556	685	685
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.368	P=0.472N	P=0.522	P=0.546
POLY 1.5	P=0.361	P=0.480N	P=0.521	P=0.535
POLY 6	P=0.376	P=0.456N	P=0.525	P=0.563
COCH-ARM / FISHERS	P=0.339	P=0.490N	P=0.511	P=0.511
MAX-ISO-POLY-3	P=0.470	P=0.303N	P=0.369	P=0.394

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.51	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pituitary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/49 (10%)	11/50 (22%)	10/50 (20%)	5/50 (10%)
POLY-3 RATE (b)	5/42.88	11/45.11	10/44.51	5/46.12
POLY-3 PERCENT (g)	11.7%	24.4%	22.5%	10.8%
TERMINAL (d)	4/31 (13%)	9/36 (25%)	8/31 (26%)	5/38 (13%)
FIRST INCIDENCE	624	556	627	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.316N	P=0.100	P=0.144	P=0.584N
POLY 1.5	P=0.330N	P=0.097	P=0.146	P=0.593N
POLY 6	P=0.300N	P=0.110	P=0.144	P=0.571N
COCH-ARM / FISHERS	P=0.369N	P=0.093	P=0.140	P=0.617N
MAX-ISO-POLY-3	P=0.230N	P=0.063	P=0.092	P=0.452N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Pleura Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/9 (0%)	0/16 (0%)	2/15 (13%)	0/17 (0%)
POLY-3 RATE (b)	0/8.81	0/15.44	2/14.62	0/16.01
POLY-3 PERCENT (g)	0%	0%	13.7%	0%
TERMINAL (d)	0/8 (0%)	0/15 (0%)	1/11 (9%)	0/14 (0%)
FIRST INCIDENCE	---	---	515	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.677	(e)	P=0.352	(e)
POLY 1.5	P=0.682	(e)	P=0.353	(e)
POLY 6	P=0.674	(e)	P=0.351	(e)
COCH-ARM / FISHERS	P=0.690	(e)	P=0.380	(e)
MAX-ISO-POLY-3	P=0.366	(e)	P=0.155	(e)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Cyst Epithelial Inclusion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Hyperkeratosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	1/46.12
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	1/38 (3%)
FIRST INCIDENCE	---	---	---	7/30 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.206	(e)	(e)	P=0.513
POLY 1.5	P=0.204	(e)	(e)	P=0.509
POLY 6	P=0.209	(e)	(e)	P=0.518
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.146	(e)	(e)	P=0.174

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	1/46.12
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	1/38 (3%)
FIRST INCIDENCE	---	---	---	7/30 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.206	(e)	(e)	P=0.513
POLY 1.5	P=0.204	(e)	(e)	P=0.509
POLY 6	P=0.209	(e)	(e)	P=0.518
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.146	(e)	(e)	P=0.174

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/43.37	1/45.04	1/44.30	3/46.23
POLY-3 PERCENT (g)	2.3%	2.2%	2.3%	6.5%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	2/38 (5%)
FIRST INCIDENCE	717	556	663	703
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.175	P=0.752N	P=0.756N	P=0.328
POLY 1.5	P=0.173	P=0.756N	P=0.756N	P=0.321
POLY 6	P=0.179	P=0.745N	P=0.755N	P=0.339
COCH-ARM / FISHERS	P=0.163	P=0.753N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.228	P=0.489N	P=0.493N	P=0.178

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen</b>				
<b>Accessory Spleen</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.32	1/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%
TERMINAL (d)	1/31 (3%)	1/36 (3%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.233N	P=0.755N	P=0.497N	P=0.487N
POLY 1.5	P=0.234N	P=0.757N	P=0.497N	P=0.491N
POLY 6	P=0.232N	P=0.749N	P=0.496N	P=0.482N
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.255N	P=0.492N	P=0.158N	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	4/50 (8%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	2/44.11	4/45.97	5/46.06	1/46.26
POLY-3 PERCENT (g)	4.5%	8.7%	10.9%	2.2%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	522	516	425	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.316N	P=0.356	P=0.234	P=0.483N
POLY 1.5	P=0.323N	P=0.348	P=0.230	P=0.488N
POLY 6	P=0.306N	P=0.372	P=0.241	P=0.476N
COCH-ARM / FISHERS	P=0.344N	P=0.339	P=0.218	P=0.500N
MAX-ISO-POLY-3	P=0.217N	P=0.221	P=0.136	P=0.271N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	1/44.79	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	644	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.507	(e)	(e)
POLY 1.5	P=0.562N	P=0.504	(e)	(e)
POLY 6	P=0.554N	P=0.513	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.393N	P=0.167	(e)	(e)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Spleen Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	420	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.115N	P=0.236N	P=0.238N	P=0.228N
POLY 1.5	P=0.114N	P=0.237N	P=0.237N	P=0.231N
POLY 6	P=0.117N	P=0.232N	P=0.239N	P=0.224N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.032N*	P=0.076N	P=0.077N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.79	0/44.48	1/44.48	0/46.12
POLY-3 PERCENT (g)	2.3%	0%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	591	---	607	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.399N	P=0.497N	P=0.757N	P=0.490N
POLY 1.5	P=0.401N	P=0.498N	P=0.757N	P=0.493N
POLY 6	P=0.399N	P=0.493N	P=0.757N	P=0.485N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.255N	P=0.158N	P=0.495N	P=0.158N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/44.42	0/44.48	1/44.48	0/46.12
POLY-3 PERCENT (g)	4.5%	0%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	522	---	607	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.184N	P=0.237N	P=0.500N	P=0.229N
POLY 1.5	P=0.185N	P=0.237N	P=0.497N	P=0.231N
POLY 6	P=0.184N	P=0.234N	P=0.501N	P=0.225N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.076N	P=0.280N	P=0.076N

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Forestomach Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	1/46.23
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	703
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.207	(e)	(e)	P=0.513
POLY 1.5	P=0.204	(e)	(e)	P=0.509
POLY 6	P=0.209	(e)	(e)	P=0.519
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.146	(e)	(e)	P=0.174

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Stomach, Glandular Erosion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	0/44.05	0/46.12
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Thyroid Gland: C-Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	27/50 (54%)	23/50 (46%)	17/50 (34%)	19/49 (39%)
POLY-3 RATE (b)	27/45.17	23/46.87	17/45.33	19/45.65
POLY-3 PERCENT (g)	59.8%	49.1%	37.5%	41.6%
TERMINAL (d)	20/31 (65%)	16/36 (44%)	11/31 (36%)	17/38 (45%)
FIRST INCIDENCE	523	438	528	703
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.048N*	P=0.202N	P=0.024N*	P=0.059N
POLY 1.5	P=0.050N*	P=0.228N	P=0.025N*	P=0.067N
POLY 6	P=0.045N*	P=0.164N	P=0.022N*	P=0.050N*
COCH-ARM / FISHERS	P=0.066N	P=0.274N	P=0.035N*	P=0.094N
MAX-ISO-POLY-3	P=0.039N*	P=0.152N	P=0.014N*	P=0.039N*

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Tongue: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/1 (0%)	1/1 (100%)	0/0 (0%)	3/3 (100%)
POLY-3 RATE (b)	0/0.76	1/1.00	0/0.00	3/3.00
POLY-3 PERCENT (g)	0%	100%	0%	100%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	2/2 (100%)
FIRST INCIDENCE	---	730 (T)	---	703
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.250
POLY 1.5	(e)	(e)	(e)	P=0.250
POLY 6	(e)	(e)	(e)	P=0.250
COCH-ARM / FISHERS	P=0.152	P=0.500	(e)	P=0.250
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Tooth Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
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)



TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<hr/>				
Tooth Malformation				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
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)

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TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Urinary Bladder: Transitional Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.32	2/44.48	0/44.05	1/46.26
POLY-3 PERCENT (g)	0%	4.5%	0%	2.2%
TERMINAL (d)	0/31 (0%)	2/36 (6%)	0/31 (0%)	0/38 (0%)
FIRST INCIDENCE	---	730 (T)	---	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.563	P=0.243	(e)	P=0.513
POLY 1.5	P=0.555	P=0.240	(e)	P=0.509
POLY 6	P=0.575	P=0.249	(e)	P=0.519
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.346	P=0.081	(e)	P=0.175

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Uterus Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/43.45	1/44.48	2/44.51	3/46.26
POLY-3 PERCENT (g)	2.3%	2.3%	4.5%	6.5%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	0/31 (0%)	2/38 (5%)
FIRST INCIDENCE	697	730 (T)	627	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.182	P=0.756N	P=0.508	P=0.328
POLY 1.5	P=0.177	P=0.758N	P=0.507	P=0.321
POLY 6	P=0.188	P=0.750N	P=0.512	P=0.339
COCH-ARM / FISHERS	P=0.165	P=0.753N	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.259	P=0.493N	P=0.290	P=0.177

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

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First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Uterus</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.32	3/44.48	0/44.05	2/46.12
POLY-3 PERCENT (g)	0%	6.8%	0%	4.3%
TERMINAL (d)	0/31 (0%)	3/36 (8%)	0/31 (0%)	2/38 (5%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.374	P=0.123	(e)	P=0.251
POLY 1.5	P=0.367	P=0.121	(e)	P=0.247
POLY 6	P=0.386	P=0.128	(e)	P=0.258
COCH-ARM / FISHERS	P=0.351	P=0.121	(e)	P=0.247
MAX-ISO-POLY-3	P=0.180	P=0.042*	(e)	P=0.090

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Uterus: Endometrium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	5/50 (10%)	7/50 (14%)	11/50 (22%)
POLY-3 RATE (b)	2/43.52	5/44.50	7/45.17	11/46.85
POLY-3 PERCENT (g)	4.6%	11.2%	15.5%	23.5%
TERMINAL (d)	1/31 (3%)	4/36 (11%)	4/31 (13%)	7/38 (18%)
FIRST INCIDENCE	677	725	509	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.006**	P=0.225	P=0.087	P=0.010**
POLY 1.5	P=0.005**	P=0.221	P=0.086	P=0.009**
POLY 6	P=0.007**	P=0.234	P=0.090	P=0.012*
COCH-ARM / FISHERS	P=0.004**	P=0.218	P=0.080	P=0.007**
MAX-ISO-POLY-3	P=0.008**	P=0.128	P=0.046*	P=0.006**

TDMS No. 93025 - 07

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Tetralin

CAS Number: 119-64-2

Date Report Requested: 11/17/2008

Time Report Requested: 08:56:08

First Dose M/F: 06/16/03 / 06/16/03

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	30 PPM	60 PPM	120 PPM
<b>Uterus: Endometrium Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/43.32	0/44.48	3/44.42	0/46.12
POLY-3 PERCENT (g)	0%	0%	6.8%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	2/31 (7%)	0/38 (0%)
FIRST INCIDENCE	---	---	627	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.576	(e)	P=0.123	(e)
POLY 1.5	P=0.565	(e)	P=0.123	(e)
POLY 6	P=0.589	(e)	P=0.124	(e)
COCH-ARM / FISHERS	P=0.539	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.183	(e)	P=0.041*	(e)

## 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.
  - (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 \*\*\*