

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

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Adrenal Cortex				
Hematopoietic Cell Proliferation				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Adrenal Cortex Hemorrhage				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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
Adrenal Cortex Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Adrenal Cortex				
Vacuolization Cytoplasmic				
LESION RATES				
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
STATISTICAL TESTS				
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
Adrenal Medulla Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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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DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Bone Marrow				
Hyperplasia Reticulum Cell				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Brain Compression				
LESION RATES				
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
STATISTICAL TESTS				
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
Brain Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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
Eye: Lens				
Cataract				
LESION RATES				
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
STATISTICAL TESTS				
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
Eye: Retina				
Atrophy				
LESION RATES				
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
STATISTICAL TESTS				
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
Eye: Sclera				
Metaplasia Osseous				
LESION RATES				
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
STATISTICAL TESTS				
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
Harderian Gland Inflammation Chronic				
LESION RATES				
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)
STATISTICAL TESTS				
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*

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
Heart				
Cardiomyopathy				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Heart: Atrium Thrombosis				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Islets, Pancreatic Hyperplasia				
LESION RATES				
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)	---
STATISTICAL TESTS				
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

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
Kidney				
Nephropathy Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Cortex, Renal Tubule Accumulation, Hyaline Droplet				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Kidney: Cortex, Renal Tubule Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Papilla Mineralization				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Pelvis, Transitional Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Pelvis, Transitional Epithelium				
Mineralization				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Larynx				
Foreign Body				
LESION RATES				
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
STATISTICAL TESTS				
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
Larynx Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Larynx: Respiratory Epithelium Hyperplasia				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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**

DOSE	Males			
	CONTROL	30 PPM	60 PPM	120 PPM
<hr/>				
Liver				
Angiectasis				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
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

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
Liver				
Basophilic Focus				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Clear Cell Focus				
LESION RATES				
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
STATISTICAL TESTS				
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
Liver				
Degeneration Cystic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Hematopoietic Cell Proliferation				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Liver				
Necrosis				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Liver				
Vacuolization Cytoplasmic				
LESION RATES				
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
STATISTICAL TESTS				
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
Liver: Bile Duct Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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

Liver: Centrilobular Degeneration

LESION RATES

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

STATISTICAL TESTS

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

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
Liver: Hepatocyte Regeneration				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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
Liver: Periportal Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Lung Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung Inflammation				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Lung Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung: Alveolar Epithelium Metaplasia Mucous				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung: Alveolus				
Foreign Body				
LESION RATES				
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)
STATISTICAL TESTS				
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
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung: Alveolus Proteinosis				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Lung: Bronchiole Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Lung: Bronchiole, Glands Degeneration Mucoïd				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Lung: Mediastinum Fibrosis				
LESION RATES				
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)	---
STATISTICAL TESTS				
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
Lymph Node, Bronchial Angiectasis				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Lymph Node, Bronchial Infiltration Cellular Histiocyte				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Lymph Node, Bronchial Inflammation Chronic				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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

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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
Lymph Node, Mediastinal Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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
Lymph Node, Mediastinal Hyperplasia Lymphoid				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Lymph Node, Mediastinal Inflammation Chronic				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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

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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
Lymph Node, Mediastinal Pigmentation				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Mammary Gland				
Galactocele				
LESION RATES				
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
STATISTICAL TESTS				
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
Mesentery				
Necrosis				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Mesentery: Fat Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose				
Foreign Body				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Nose Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Nose				
Inflammation Chronic				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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
Nose: Glands Dilatation				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Nose: Nasolacrimal Duct Inflammation				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Degeneration				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Degeneration Hyaline				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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

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
Nose: Olfactory Epithelium Hyperplasia Basal Cell				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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**

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
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Mineralization				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

**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
Nose: Respiratory Epithelium Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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
Oral Mucosa: Pharyngeal Hyperplasia				
LESION RATES				
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)	---
STATISTICAL TESTS				
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
Pancreas: Acinus Atrophy				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Pituitary Gland Cyst				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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
Pituitary Gland Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Pituitary Gland Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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				
LESION RATES				
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)
STATISTICAL TESTS				
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
Preputial Gland Cyst				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Preputial Gland Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Prostate Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Prostate Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Skin				
Hyperkeratosis				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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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
Skin				
Hyperplasia				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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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
Skin				
Ulcer				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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

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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
Spleen				
Accessory Spleen				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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

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
Spleen Fibrosis				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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

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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
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
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
STATISTICAL TESTS				
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
Spleen Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Spleen Necrosis				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Stomach, Forestomach Hyperplasia				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Stomach, Forestomach Inflammation				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Stomach, Forestomach Ulcer				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Stomach, Glandular Erosion				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Testes				
Mineralization				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Testes: Artery				
Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Testes: Germinal Epithelium Atrophy				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Testes: Interstitial Cell Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Tongue: Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Tooth Inflammation				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Tooth Malformation				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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

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
Urinary Bladder: Transitional Epithelium Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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
Adrenal Cortex				
Hematopoietic Cell Proliferation				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Adrenal Cortex Hemorrhage				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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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
Adrenal Cortex Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Adrenal Cortex				
Vacuolization Cytoplasmic				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Adrenal Medulla Hyperplasia				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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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
Bone Marrow				
Hyperplasia Reticulum Cell				
LESION RATES				
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	---
STATISTICAL TESTS				
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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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
Brain Compression				
LESION RATES				
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
STATISTICAL TESTS				
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
Brain Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Clitoral Gland Cyst				
LESION RATES				
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)
STATISTICAL TESTS				
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
Clitoral Gland Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Eye: Lens				
Cataract				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Eye: Retina				
Atrophy				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Eye: Sclera				
Metaplasia Osseous				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Harderian Gland Inflammation Chronic				
LESION RATES				
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)	---
STATISTICAL TESTS				
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

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
Heart				
Cardiomyopathy				
LESION RATES				
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
STATISTICAL TESTS				
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
Heart: Atrium				
Thrombosis				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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

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
Islets, Pancreatic Hyperplasia				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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

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
Kidney				
Nephropathy Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Cortex, Renal Tubule Accumulation, Hyaline Droplet				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Kidney: Cortex, Renal Tubule Hyperplasia				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Kidney: Papilla Mineralization				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Pelvis, Transitional Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Kidney: Pelvis, Transitional Epithelium Mineralization				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Larynx				
Foreign Body				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Larynx Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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
Larynx: Respiratory Epithelium Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Liver				
Angiectasis				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Basophilic Focus				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Clear Cell Focus				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Degeneration Cystic				
LESION RATES				
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)	---
STATISTICAL TESTS				
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

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
Liver				
Hematopoietic Cell Proliferation				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver				
Necrosis				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Liver				
Vacuolization Cytoplasmic				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver: Bile Duct Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Liver: Centrilobular Degeneration				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
<hr/>				
Liver: Hepatocyte Regeneration				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Liver: Periportal Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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
Lung Hemorrhage				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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

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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
Lung Inflammation				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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

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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
Lung				
Inflammation Chronic				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Lung: Alveolar Epithelium Metaplasia Mucous				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
<hr/>				
Lung: Alveolus				
Foreign Body				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Lung: Alveolus Proteinosis				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Lung: Bronchiole Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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

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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
Lung: Bronchiole, Glands Degeneration Mucoïd				
LESION RATES				
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)	---
STATISTICAL TESTS				
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

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
Lung: Mediastinum Fibrosis				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Lymph Node, Bronchial Angiectasis				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Lymph Node, Bronchial Infiltration Cellular Histiocyte				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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

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
Lymph Node, Bronchial Inflammation Chronic				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Lymph Node, Mediastinal Hemorrhage				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Lymph Node, Mediastinal Hyperplasia Lymphoid				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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
Lymph Node, Mediastinal Inflammation Chronic				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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
Lymph Node, Mediastinal Pigmentation				
LESION RATES				
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)	---
STATISTICAL TESTS				
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

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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
<hr/>				
Mammary Gland Galactocele				
<hr/>				
LESION RATES				
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)
<hr/>				
STATISTICAL TESTS				
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

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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
Mesentery				
Necrosis				
LESION RATES				
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
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Mesentery: Fat Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose				
Foreign Body				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Nose				
Inflammation Chronic				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Nose: Glands Dilatation				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Nasolacrimal Duct Inflammation				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Nose: Olfactory Epithelium Degeneration				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Degeneration Hyaline				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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*

**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
Nose: Olfactory Epithelium Hyperplasia Basal Cell				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Inflammation				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Olfactory Epithelium Mineralization				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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
Nose: Respiratory Epithelium Inflammation Chronic				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Oral Mucosa: Pharyngeal Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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				
LESION RATES				
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
STATISTICAL TESTS				
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
Pancreas: Acinus Atrophy				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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

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
Pituitary Gland Cyst				
LESION RATES				
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
STATISTICAL TESTS				
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

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
Pituitary Gland Hemorrhage				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Pituitary Gland Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Pleura Fibrosis				
LESION RATES				
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	---
STATISTICAL TESTS				
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

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
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Skin				
Hyperkeratosis				
LESION RATES				
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)
STATISTICAL TESTS				
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
Skin				
Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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
Skin				
Ulcer				
LESION RATES				
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
STATISTICAL TESTS				
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
Spleen				
Accessory Spleen				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Spleen Fibrosis				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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

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
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Spleen Hemorrhage				
LESION RATES				
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	---	---
STATISTICAL TESTS				
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

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
Spleen Necrosis				
LESION RATES				
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	---	---	---
STATISTICAL TESTS				
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

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
Stomach, Forestomach Hyperplasia				
LESION RATES				
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	---
STATISTICAL TESTS				
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
Stomach, Forestomach Inflammation				
LESION RATES				
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	---
STATISTICAL TESTS				
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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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
Stomach, Forestomach Ulcer				
LESION RATES				
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
STATISTICAL TESTS				
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
Stomach, Glandular Erosion				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Tongue: Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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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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
Tooth Inflammation				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Tooth Malformation				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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
Urinary Bladder: Transitional Epithelium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Uterus Hemorrhage				
LESION RATES				
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
STATISTICAL TESTS				
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

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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
Uterus				
Necrosis				
LESION RATES				
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)
STATISTICAL TESTS				
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

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
Uterus: Endometrium Hyperplasia				
LESION RATES				
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
STATISTICAL TESTS				
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**

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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
Uterus: Endometrium Inflammation				
LESION RATES				
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	---
STATISTICAL TESTS				
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)

TDMS No. 93025 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344/N

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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of Statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (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 ***