

TDMS No. 05174-05
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
CRESOLS
CAS Number: 1319-77-3
Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
Time Report Requested: 7:49:25
First Dose M/F: 08/05/02 / NA
Lab: BAT

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

MALE RATS

Organ

Adrenal Medulla
Bone: Joint
Eye: Sclera
Kidney: Renal Tubule
Kidney: Transitional Epithelium
Liver

Nose
Nose: Goblet Cell
Nose: Respiratory Epithelium

Pituitary Gland
Testes: Interstitial Cell
Thyroid Gland: C-Cell
Thyroid Gland: Follicular Cell

Morphology

Angiectasis
Inflammation
Metaplasia Osseous
Inflammation
Hyperplasia
Angiectasis
Basophilic Focus
Eosinophilic Focus
Fatty Change
Inflammation
Inflammation
Hyperplasia
Hyperplasia
Metaplasia
Angiectasis
Hyperplasia
Hyperplasia
Hyperplasia

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Cortex
 Hyperplasia**

LESION RATES

OVERALL (a)	12/50 (24%)	11/50 (22%)	10/50 (20%)	7/50 (14%)
POLY-3 RATE (b)	12/46.35	11/45.19	10/44.53	7/43.19
POLY-3 PERCENT (g)	25.9%	24.3%	22.5%	16.2%
TERMINAL (d)	11/33 (33%)	10/34 (29%)	7/33 (21%)	7/31 (23%)
FIRST INCIDENCE	449	653	19	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.160N	P=0.475N	P=0.411N	P=0.182N
POLY 3	P=0.155N	P=0.528N	P=0.446N	P=0.194N
POLY 1.5	P=0.144N	P=0.522N	P=0.437N	P=0.181N
POLY 6	P=0.164N	P=0.530N	P=0.452N	P=0.203N
LOGISTIC REGRESSION	P=0.130N	P=0.517N	P=0.365N	P=0.189N
COCH-ARM / FISHERS	P=0.122N	P=0.500N	P=0.405N	P=0.154N
ORDER RESTRICTED	P=0.213N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Cortex
 Necrosis**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	1/45.79	0/44.91	4/43.94	0/43.19
POLY-3 PERCENT (g)	2.2%	0%	9.1%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/31 (0%)
FIRST INCIDENCE	674	---	569	---

STATISTICAL TESTS

LIFE TABLE	P=0.468N	P=0.515N	P=0.159	P=0.520N
POLY 3	P=0.469N	P=0.504N	P=0.166	P=0.512N
POLY 1.5	P=0.460N	P=0.503N	P=0.167	P=0.508N
POLY 6	P=0.476N	P=0.505N	P=0.166	P=0.515N
LOGISTIC REGRESSION	P=0.425N	P=0.489N	P=0.203	P=0.485N
COCH-ARM / FISHERS	P=0.442N	P=0.500N	P=0.181	P=0.500N
ORDER RESTRICTED	P=0.223N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.241N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Cortex
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	25/50 (50%)	22/50 (44%)	21/50 (42%)	19/50 (38%)
POLY-3 RATE (b)	25/47.49	22/46.77	21/45.66	19/47.24
POLY-3 PERCENT (g)	52.7%	47%	46%	40.2%
TERMINAL (d)	16/33 (49%)	15/34 (44%)	13/33 (39%)	10/31 (32%)
FIRST INCIDENCE	606	528	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.295N	P=0.353N	P=0.353N	P=0.268N
POLY 3	P=0.155N	P=0.367N	P=0.331N	P=0.154N
POLY 1.5	P=0.155N	P=0.362N	P=0.331N	P=0.153N
POLY 6	P=0.160N	P=0.377N	P=0.334N	P=0.161N
LOGISTIC REGRESSION	P=0.170N	P=0.361N	P=0.328N	P=0.121N
COCH-ARM / FISHERS	P=0.167N	P=0.344N	P=0.274N	P=0.157N
ORDER RESTRICTED	P=0.169N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.179N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Medulla
 Angiectasis**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.58	0/44.91	0/42.82	0/43.19
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.253N	P=0.232N	P=0.238N	P=0.252N
POLY 3	P=0.239N	P=0.240N	P=0.251N	P=0.249N
POLY 1.5	P=0.239N	P=0.240N	P=0.249N	P=0.246N
POLY 6	P=0.239N	P=0.241N	P=0.254N	P=0.252N
LOGISTIC REGRESSION	P=0.253N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.242N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.034N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.044N*	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Medulla
 Hyperplasia**

LESION RATES

OVERALL (a)	10/50 (20%)	12/50 (24%)	11/50 (22%)	8/50 (16%)
POLY-3 RATE (b)	10/46.00	12/45.93	11/43.17	8/44.22
POLY-3 PERCENT (g)	21.7%	26.1%	25.5%	18.1%
TERMINAL (d)	7/33 (21%)	8/34 (24%)	10/33 (30%)	5/31 (16%)
FIRST INCIDENCE	667	618	631	589

STATISTICAL TESTS

LIFE TABLE	P=0.327N	P=0.423	P=0.482	P=0.459N
POLY 3	P=0.285N	P=0.402	P=0.434	P=0.433N
POLY 1.5	P=0.275N	P=0.399	P=0.446	P=0.424N
POLY 6	P=0.290N	P=0.408	P=0.418	P=0.436N
LOGISTIC REGRESSION	P=0.292N	P=0.390	P=0.418	P=0.435N
COCH-ARM / FISHERS	P=0.251N	P=0.405	P=0.500	P=0.398N
ORDER RESTRICTED	P=0.375N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.388N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Bone Marrow
 Hyperplasia**

LESION RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	5/46.50	2/45.60	6/43.82	7/44.48
POLY-3 PERCENT (g)	10.8%	4.4%	13.7%	15.7%
TERMINAL (d)	3/33 (9%)	0/34 (0%)	4/33 (12%)	3/31 (10%)
FIRST INCIDENCE	449	618	569	586

STATISTICAL TESTS

LIFE TABLE	P=0.128	P=0.222N	P=0.487	P=0.340
POLY 3	P=0.135	P=0.224N	P=0.458	P=0.348
POLY 1.5	P=0.140	P=0.223N	P=0.464	P=0.356
POLY 6	P=0.133	P=0.223N	P=0.453	P=0.347
LOGISTIC REGRESSION	P=0.164	P=0.174N	P=0.530	P=0.436
COCH-ARM / FISHERS	P=0.152	P=0.218N	P=0.500	P=0.380
ORDER RESTRICTED	P=0.166	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.182	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Bone: Joint
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/46.16	0/44.91	0/42.82	3/43.20
POLY-3 PERCENT (g)	2.2%	0%	0%	6.9%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	2/31 (7%)
FIRST INCIDENCE	548	---	---	725

STATISTICAL TESTS

LIFE TABLE	P=0.050*	P=0.504N	P=0.513N	P=0.291
POLY 3	P=0.051	P=0.505N	P=0.515N	P=0.282
POLY 1.5	P=0.052	P=0.504N	P=0.512N	P=0.290
POLY 6	P=0.050*	P=0.507N	P=0.519N	P=0.275
LOGISTIC REGRESSION	P=0.055	P=0.394N	P=0.409N	P=0.316
COCH-ARM / FISHERS	P=0.055	P=0.500N	P=0.500N	P=0.309
ORDER RESTRICTED	P=0.032*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Brain
 Hydrocephalus**

LESION RATES

OVERALL (a)	7/50 (14%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	7/45.98	4/45.87	4/43.68	4/44.83
POLY-3 PERCENT (g)	15.2%	8.7%	9.2%	8.9%
TERMINAL (d)	5/33 (15%)	3/34 (9%)	1/33 (3%)	2/31 (7%)
FIRST INCIDENCE	665	253	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.367N	P=0.259N	P=0.289N	P=0.302N
POLY 3	P=0.336N	P=0.262N	P=0.291N	P=0.275N
POLY 1.5	P=0.332N	P=0.261N	P=0.288N	P=0.271N
POLY 6	P=0.339N	P=0.265N	P=0.294N	P=0.280N
LOGISTIC REGRESSION	P=0.287N	P=0.233N	P=0.273N	P=0.191N
COCH-ARM / FISHERS	P=0.323N	P=0.262N	P=0.262N	P=0.262N
ORDER RESTRICTED	P=0.260N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.272N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Brain: Hypothalamus
 Compression

LESION RATES

OVERALL (a)	6/50 (12%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	6/45.82	4/45.87	4/43.68	4/44.83
POLY-3 PERCENT (g)	13.1%	8.7%	9.2%	8.9%
TERMINAL (d)	5/33 (15%)	3/34 (9%)	1/33 (3%)	2/31 (7%)
FIRST INCIDENCE	665	253	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.448N	P=0.362N	P=0.392N	P=0.409N
POLY 3	P=0.417N	P=0.369N	P=0.400N	P=0.383N
POLY 1.5	P=0.413N	P=0.369N	P=0.397N	P=0.379N
POLY 6	P=0.420N	P=0.371N	P=0.402N	P=0.387N
LOGISTIC REGRESSION	P=0.365N	P=0.337N	P=0.385N	P=0.285N
COCH-ARM / FISHERS	P=0.404N	P=0.370N	P=0.370N	P=0.370N
ORDER RESTRICTED	P=0.402N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.413N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Epididymis
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.58	0/44.91	2/42.82	1/43.19
POLY-3 PERCENT (g)	0%	0%	4.7%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	1/31 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.328	(e)	P=0.238	P=0.488
POLY 3	P=0.328	(e)	P=0.223	P=0.489
POLY 1.5	P=0.335	(e)	P=0.226	P=0.493
POLY 6	P=0.323	(e)	P=0.221	P=0.487
LOGISTIC REGRESSION	(e)	(e)	P=0.238	P=0.488
COCH-ARM / FISHERS	P=0.350	(e)	P=0.247	P=0.500
ORDER RESTRICTED	P=0.156	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.175	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Eye
 Cataract

LESION RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.78	3/44.91	0/42.82	1/43.19
POLY-3 PERCENT (g)	2.2%	6.7%	0%	2.3%
TERMINAL (d)	1/33 (3%)	3/34 (9%)	0/33 (0%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.453N	P=0.315	P=0.500N	P=0.748
POLY 3	P=0.436N	P=0.306	P=0.509N	P=0.753
POLY 1.5	P=0.431N	P=0.308	P=0.507N	P=0.756
POLY 6	P=0.439N	P=0.304	P=0.512N	P=0.749
LOGISTIC REGRESSION	P=0.453N	P=0.315	(e)	P=0.748
COCH-ARM / FISHERS	P=0.423N	P=0.316	P=0.495N	P=0.747N
ORDER RESTRICTED	P=0.280N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.295N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Eye: Optic Nerve
 Atrophy

LESION RATES

OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.78	2/44.91	0/42.82	0/43.19
POLY-3 PERCENT (g)	0%	4.5%	0%	0%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.384N	P=0.245	(e)	(e)
POLY 3	P=0.375N	P=0.238	(e)	(e)
POLY 1.5	P=0.372N	P=0.239	(e)	(e)
POLY 6	P=0.378N	P=0.237	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.245	(e)	(e)
COCH-ARM / FISHERS	P=0.367N	P=0.253	(e)	(e)
ORDER RESTRICTED	P=0.255N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.270N	(e)	(e)	(e)

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 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Eye: Retina
 Atrophy

LESION RATES

OVERALL (a)	1/49 (2%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.78	4/44.91	0/42.82	1/43.19
POLY-3 PERCENT (g)	2.2%	8.9%	0%	2.3%
TERMINAL (d)	1/33 (3%)	4/34 (12%)	0/33 (0%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.354N	P=0.187	P=0.500N	P=0.748
POLY 3	P=0.338N	P=0.179	P=0.509N	P=0.753
POLY 1.5	P=0.333N	P=0.181	P=0.507N	P=0.756
POLY 6	P=0.342N	P=0.177	P=0.512N	P=0.749
LOGISTIC REGRESSION	P=0.354N	P=0.187	(e)	P=0.748
COCH-ARM / FISHERS	P=0.325N	P=0.187	P=0.495N	P=0.747N
ORDER RESTRICTED	P=0.196N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.213N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Eye: Sclera
 Metaplasia Osseous

LESION RATES

OVERALL (a)	16/49 (33%)	29/50 (58%)	28/50 (56%)	15/50 (30%)
POLY-3 RATE (b)	16/46.59	29/48.13	28/45.45	15/44.41
POLY-3 PERCENT (g)	34.4%	60.3%	61.6%	33.8%
TERMINAL (d)	10/33 (30%)	17/34 (50%)	19/33 (58%)	11/31 (36%)
FIRST INCIDENCE	548	528	534	576

STATISTICAL TESTS

LIFE TABLE	P=0.170N	P=0.022*	P=0.019*	P=0.576
POLY 3	P=0.117N	P=0.008**	P=0.006**	P=0.565N
POLY 1.5	P=0.092N	P=0.008**	P=0.007**	P=0.534N
POLY 6	P=0.148N	P=0.010**	P=0.005**	P=0.582
LOGISTIC REGRESSION	P=0.079N	P=0.010**	P=0.010**	P=0.508N
COCH-ARM / FISHERS	P=0.065N	P=0.010**	P=0.016*	P=0.473N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.063N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Harderian Gland
 Atrophy**

LESION RATES

OVERALL (a)	0/49 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/44.78	0/44.91	2/42.82	2/43.19
POLY-3 PERCENT (g)	0%	0%	4.7%	4.6%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	2/31 (7%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.106	(e)	P=0.238	P=0.224
POLY 3	P=0.111	(e)	P=0.227	P=0.229
POLY 1.5	P=0.115	(e)	P=0.230	P=0.233
POLY 6	P=0.108	(e)	P=0.224	P=0.226
LOGISTIC REGRESSION	(e)	(e)	P=0.238	P=0.224
COCH-ARM / FISHERS	P=0.124	(e)	P=0.253	P=0.253
ORDER RESTRICTED	P=0.108	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.123	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Harderian Gland
 Inflammation**

LESION RATES

OVERALL (a)	1/49 (2%)	6/50 (12%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	1/44.93	6/45.53	5/42.97	3/43.19
POLY-3 PERCENT (g)	2.2%	13.2%	11.6%	7%
TERMINAL (d)	0/33 (0%)	4/34 (12%)	4/33 (12%)	3/31 (10%)
FIRST INCIDENCE	690	639	690	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.567	P=0.064	P=0.102	P=0.280
POLY 3	P=0.583	P=0.058	P=0.091	P=0.291
POLY 1.5	P=0.583N	P=0.058	P=0.094	P=0.298
POLY 6	P=0.568	P=0.058	P=0.087	P=0.284
LOGISTIC REGRESSION	P=0.587N	P=0.062	P=0.090	P=0.285
COCH-ARM / FISHERS	P=0.554N	P=0.059	P=0.107	P=0.316
ORDER RESTRICTED	P=0.119	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.134	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	42/50 (84%)	46/50 (92%)	42/50 (84%)	42/50 (84%)
POLY-3 RATE (b)	42/48.77	46/49.43	42/47.65	42/47.34
POLY-3 PERCENT (g)	86.1%	93.1%	88.1%	88.7%
TERMINAL (d)	30/33 (91%)	32/34 (94%)	28/33 (85%)	29/31 (94%)
FIRST INCIDENCE	449	253	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.430	P=0.337	P=0.499	P=0.380
POLY 3	P=0.558N	P=0.200	P=0.503	P=0.468
POLY 1.5	P=0.487N	P=0.189	P=0.465	P=0.511
POLY 6	P=0.570	P=0.224	P=0.576	P=0.454
LOGISTIC REGRESSION	P=0.445N	P=0.167	P=0.431	P=0.470
COCH-ARM / FISHERS	P=0.357N	P=0.178	P=0.607N	P=0.607N
ORDER RESTRICTED	P=0.414	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.425	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Heart: Atrium
 Thrombosis

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.60	1/45.02	0/42.82	0/43.19
POLY-3 PERCENT (g)	4.4%	2.2%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	725	701	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.180N	P=0.490N	P=0.243N	P=0.250N
POLY 3	P=0.171N	P=0.504N	P=0.251N	P=0.249N
POLY 1.5	P=0.170N	P=0.504N	P=0.249N	P=0.246N
POLY 6	P=0.172N	P=0.504N	P=0.254N	P=0.252N
LOGISTIC REGRESSION	P=0.178N	P=0.506N	P=0.249N	P=0.248N
COCH-ARM / FISHERS	P=0.169N	P=0.500N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.082N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.097N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Intestine Large, Colon
 Parasite Metazoan**

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	4/45.58	3/45.30	3/42.82	2/43.21
POLY-3 PERCENT (g)	8.8%	6.6%	7%	4.6%
TERMINAL (d)	4/33 (12%)	2/34 (6%)	3/33 (9%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	618	729 (T)	724

STATISTICAL TESTS

LIFE TABLE	P=0.340N	P=0.484N	P=0.500N	P=0.362N
POLY 3	P=0.329N	P=0.503N	P=0.534N	P=0.362N
POLY 1.5	P=0.321N	P=0.504N	P=0.528N	P=0.355N
POLY 6	P=0.336N	P=0.501N	P=0.541N	P=0.367N
LOGISTIC REGRESSION	P=0.334N	P=0.508N	P=0.500N	P=0.354N
COCH-ARM / FISHERS	P=0.305N	P=0.500N	P=0.500N	P=0.339N
ORDER RESTRICTED	P=0.350N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.366N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Intestine Large, Rectum
 Parasite Metazoan**

LESION RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	4/45.97	5/44.91	4/43.07	2/43.19
POLY-3 PERCENT (g)	8.7%	11.1%	9.3%	4.6%
TERMINAL (d)	2/33 (6%)	5/34 (15%)	3/33 (9%)	2/31 (7%)
FIRST INCIDENCE	667	729 (T)	662	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.236N	P=0.509	P=0.617	P=0.373N
POLY 3	P=0.228N	P=0.485	P=0.607	P=0.366N
POLY 1.5	P=0.219N	P=0.490	P=0.614	P=0.357N
POLY 6	P=0.236N	P=0.480	P=0.599	P=0.376N
LOGISTIC REGRESSION	P=0.228N	P=0.490	P=0.613	P=0.363N
COCH-ARM / FISHERS	P=0.203N	P=0.500	P=0.643N	P=0.339N
ORDER RESTRICTED	P=0.295N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.315N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Islets, Pancreatic
 Hyperplasia**

LESION RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)	1/50 (2%)	4/49 (8%)
POLY-3 RATE (b)	2/44.73	2/44.91	1/42.82	4/42.81
POLY-3 PERCENT (g)	4.5%	4.5%	2.3%	9.3%
TERMINAL (d)	1/33 (3%)	2/34 (6%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	725	729 (T)	729 (T)	667

STATISTICAL TESTS

LIFE TABLE	P=0.179	P=0.683N	P=0.503N	P=0.318
POLY 3	P=0.182	P=0.693N	P=0.515N	P=0.317
POLY 1.5	P=0.185	P=0.691N	P=0.511N	P=0.322
POLY 6	P=0.181	P=0.694N	P=0.520N	P=0.315
LOGISTIC REGRESSION	P=0.174	P=0.692N	P=0.516N	P=0.314
COCH-ARM / FISHERS	P=0.193	P=0.684N	P=0.492N	P=0.339
ORDER RESTRICTED	P=0.186	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.201	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
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 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
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 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney
 Necrosis**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	2/45.82	1/45.02	1/42.82	4/43.60
POLY-3 PERCENT (g)	4.4%	2.2%	2.3%	9.2%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	1/33 (3%)	2/31 (7%)
FIRST INCIDENCE	667	701	729 (T)	667

STATISTICAL TESTS

LIFE TABLE	P=0.114	P=0.502N	P=0.517N	P=0.310
POLY 3	P=0.118	P=0.506N	P=0.524N	P=0.314
POLY 1.5	P=0.121	P=0.505N	P=0.519N	P=0.321
POLY 6	P=0.116	P=0.507N	P=0.529N	P=0.310
LOGISTIC REGRESSION	P=0.119	P=0.500N	P=0.520N	P=0.325
COCH-ARM / FISHERS	P=0.127	P=0.500N	P=0.500N	P=0.339
ORDER RESTRICTED	P=0.121	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.137	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
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Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	47/50 (94%)	48/50 (96%)	46/50 (92%)	49/50 (98%)
POLY-3 RATE (b)	47/49.37	48/48.93	46/47.47	49/49.63
POLY-3 PERCENT (g)	95.2%	98.1%	96.9%	98.7%
TERMINAL (d)	33/33 (100%)	34/34 (100%)	33/33 (100%)	31/31 (100%)
FIRST INCIDENCE	449	528	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.169	P=0.541	P=0.562	P=0.235
POLY 3	P=0.309	P=0.397	P=0.539	P=0.311
POLY 1.5	P=0.305	P=0.393	P=0.534	P=0.307
POLY 6	P=0.299	P=0.456	P=0.560	P=0.326
LOGISTIC REGRESSION	P=0.150	P=0.387	P=0.511	P=0.254
COCH-ARM / FISHERS	P=0.275	P=0.500	P=0.500N	P=0.309
ORDER RESTRICTED	P=0.177	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.186	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
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Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney: Renal Tubule
 Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.58	2/44.91	0/42.82	0/43.19
POLY-3 PERCENT (g)	0%	4.5%	0%	0%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.384N	P=0.245	(e)	(e)
POLY 3	P=0.377N	P=0.234	(e)	(e)
POLY 1.5	P=0.374N	P=0.235	(e)	(e)
POLY 6	P=0.379N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.245	(e)	(e)
COCH-ARM / FISHERS	P=0.369N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.255N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.272N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney: Renal Tubule
 Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/45.58	0/44.91	0/42.82	1/43.19
POLY-3 PERCENT (g)	4.4%	0%	0%	2.3%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/33 (0%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.672N	P=0.232N	P=0.238N	P=0.522N
POLY 3	P=0.651N	P=0.240N	P=0.251N	P=0.519N
POLY 1.5	P=0.650N	P=0.240N	P=0.249N	P=0.513N
POLY 6	P=0.652N	P=0.241N	P=0.254N	P=0.523N
LOGISTIC REGRESSION	P=0.672N	(e)	(e)	P=0.522N
COCH-ARM / FISHERS	P=0.650N	P=0.247N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.144N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.161N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney: Renal Tubule
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/45.58	0/44.91	1/42.82	3/43.19
POLY-3 PERCENT (g)	0%	0%	2.3%	7%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	3/31 (10%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.017*	(e)	P=0.500	P=0.110
POLY 3	P=0.018*	(e)	P=0.488	P=0.109
POLY 1.5	P=0.019*	(e)	P=0.490	P=0.112
POLY 6	P=0.018*	(e)	P=0.485	P=0.107
LOGISTIC REGRESSION	(e)	(e)	P=0.500	P=0.110
COCH-ARM / FISHERS	P=0.021*	(e)	P=0.500	P=0.121
ORDER RESTRICTED	P=0.017*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.024*	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney: Transitional Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	8/50 (16%)
POLY-3 RATE (b)	0/45.58	0/44.91	2/43.14	8/43.20
POLY-3 PERCENT (g)	0%	0%	4.6%	18.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	7/31 (23%)
FIRST INCIDENCE	---	---	639	725

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	P=0.224	P=0.004**
POLY 3	P<0.001**	(e)	P=0.225	P=0.003**
POLY 1.5	P<0.001**	(e)	P=0.227	P=0.003**
POLY 6	P<0.001**	(e)	P=0.223	P=0.002**
LOGISTIC REGRESSION	P<0.001**	(e)	P=0.237	P=0.004**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.247	P=0.003**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	5/50 (10%)	5/50 (10%)	7/50 (14%)	14/50 (28%)
POLY-3 RATE (b)	5/45.58	5/44.91	7/42.92	14/43.20
POLY-3 PERCENT (g)	11%	11.1%	16.3%	32.4%
TERMINAL (d)	5/33 (15%)	5/34 (15%)	6/33 (18%)	13/31 (42%)
FIRST INCIDENCE	729 (T)	729 (T)	702	725
STATISTICAL TESTS				
LIFE TABLE	P<0.001**	P=0.614N	P=0.374	P=0.011*
POLY 3	P=0.002**	P=0.621	P=0.337	P=0.012*
POLY 1.5	P=0.002**	P=0.622	P=0.344	P=0.014*
POLY 6	P=0.002**	P=0.621	P=0.329	P=0.010**
LOGISTIC REGRESSION	P=0.002**	P=0.614N	P=0.333	P=0.012*
COCH-ARM / FISHERS	P=0.003**	P=0.630N	P=0.380	P=0.020*
ORDER RESTRICTED	P=0.004**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	24/50 (48%)	18/50 (36%)	17/50 (34%)	7/50 (14%)
POLY-3 RATE (b)	24/46.31	18/45.30	17/42.92	7/43.20
POLY-3 PERCENT (g)	51.8%	39.7%	39.6%	16.2%
TERMINAL (d)	22/33 (67%)	17/34 (50%)	16/33 (49%)	6/31 (19%)
FIRST INCIDENCE	598	618	702	725

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.105N	P=0.092N	P<0.001N**
POLY 3	P<0.001N**	P=0.166N	P=0.168N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.165N	P=0.156N	P<0.001N**
POLY 6	P<0.001N**	P=0.166N	P=0.184N	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.162N	P=0.170N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.156N	P=0.111N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	25/50 (50%)	20/50 (40%)	25/50 (50%)	27/50 (54%)
POLY-3 RATE (b)	25/46.03	20/45.60	25/43.24	27/46.23
POLY-3 PERCENT (g)	54.3%	43.9%	57.8%	58.4%
TERMINAL (d)	24/33 (73%)	18/34 (53%)	23/33 (70%)	22/31 (71%)
FIRST INCIDENCE	598	618	662	299

STATISTICAL TESTS

LIFE TABLE	P=0.082	P=0.145N	P=0.582	P=0.274
POLY 3	P=0.208	P=0.210N	P=0.451	P=0.425
POLY 1.5	P=0.210	P=0.216N	P=0.474	P=0.421
POLY 6	P=0.209	P=0.196N	P=0.426	P=0.438
LOGISTIC REGRESSION	P=0.124	P=0.222N	P=0.400	P=0.343
COCH-ARM / FISHERS	P=0.208	P=0.211N	P=0.579N	P=0.421
ORDER RESTRICTED	P=0.280	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.288	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	7/50 (14%)	9/50 (18%)	12/50 (24%)	9/50 (18%)
POLY-3 RATE (b)	7/45.82	9/46.15	12/43.27	9/43.38
POLY-3 PERCENT (g)	15.3%	19.5%	27.7%	20.8%
TERMINAL (d)	6/33 (18%)	6/34 (18%)	10/33 (30%)	6/31 (19%)
FIRST INCIDENCE	667	528	631	688

STATISTICAL TESTS

LIFE TABLE	P=0.367	P=0.406	P=0.144	P=0.347
POLY 3	P=0.373	P=0.398	P=0.118	P=0.346
POLY 1.5	P=0.397	P=0.393	P=0.124	P=0.361
POLY 6	P=0.353	P=0.407	P=0.112	P=0.335
LOGISTIC REGRESSION	P=0.388	P=0.390	P=0.109	P=0.333
COCH-ARM / FISHERS	P=0.443	P=0.393	P=0.154	P=0.393
ORDER RESTRICTED	P=0.235	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.251	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Eosinophilic Focus

LESION RATES

OVERALL (a)	14/50 (28%)	14/50 (28%)	13/50 (26%)	23/50 (46%)
POLY-3 RATE (b)	14/46.58	14/44.91	13/42.92	23/43.73
POLY-3 PERCENT (g)	30.1%	31.2%	30.3%	52.6%
TERMINAL (d)	12/33 (36%)	14/34 (41%)	12/33 (36%)	19/31 (61%)
FIRST INCIDENCE	449	729 (T)	702	639

STATISTICAL TESTS

LIFE TABLE	P=0.005**	P=0.561N	P=0.511N	P=0.026*
POLY 3	P=0.008**	P=0.544	P=0.582	P=0.021*
POLY 1.5	P=0.010**	P=0.557	P=0.578N	P=0.028*
POLY 6	P=0.006**	P=0.531	P=0.559	P=0.016*
LOGISTIC REGRESSION	P=0.006**	P=0.569	P=0.590N	P=0.024*
COCH-ARM / FISHERS	P=0.017*	P=0.588N	P=0.500N	P=0.048*
ORDER RESTRICTED	P=0.014*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012*	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	17/50 (34%)	20/50 (40%)	9/50 (18%)	8/50 (16%)
POLY-3 RATE (b)	17/47.45	20/46.14	9/44.25	8/44.32
POLY-3 PERCENT (g)	35.8%	43.3%	20.3%	18.1%
TERMINAL (d)	9/33 (27%)	15/34 (44%)	4/33 (12%)	3/31 (10%)
FIRST INCIDENCE	548	528	586	613
STATISTICAL TESTS				
LIFE TABLE	P=0.020N*	P=0.368	P=0.091N	P=0.068N
POLY 3	P=0.009N**	P=0.296	P=0.077N	P=0.044N*
POLY 1.5	P=0.008N**	P=0.311	P=0.072N	P=0.039N*
POLY 6	P=0.009N**	P=0.276	P=0.083N	P=0.049N*
LOGISTIC REGRESSION	P=0.008N**	P=0.328	P=0.059N	P=0.033N*
COCH-ARM / FISHERS	P=0.007N**	P=0.339	P=0.055N	P=0.032N*
ORDER RESTRICTED	P=0.013N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.014N*	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Liver Fibrosis				
LESION RATES				
OVERALL (a)	29/50 (58%)	30/50 (60%)	29/50 (58%)	34/50 (68%)
POLY-3 RATE (b)	29/48.17	30/46.56	29/45.23	34/46.73
POLY-3 PERCENT (g)	60.2%	64.4%	64.1%	72.8%
TERMINAL (d)	21/33 (64%)	23/34 (68%)	20/33 (61%)	23/31 (74%)
FIRST INCIDENCE	548	618	586	396
STATISTICAL TESTS				
LIFE TABLE	P=0.097	P=0.529	P=0.509	P=0.145
POLY 3	P=0.120	P=0.415	P=0.429	P=0.135
POLY 1.5	P=0.133	P=0.442	P=0.454	P=0.154
POLY 6	P=0.113	P=0.384	P=0.407	P=0.121
LOGISTIC REGRESSION	P=0.108	P=0.470	P=0.468	P=0.162
COCH-ARM / FISHERS	P=0.165	P=0.500	P=0.580N	P=0.204
ORDER RESTRICTED	P=0.144	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.156	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.74	1/45.30	0/42.82	0/43.19
POLY-3 PERCENT (g)	4.4%	2.2%	0%	0%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	690	618	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.185N	P=0.494N	P=0.246N	P=0.259N
POLY 3	P=0.172N	P=0.503N	P=0.252N	P=0.250N
POLY 1.5	P=0.171N	P=0.503N	P=0.249N	P=0.246N
POLY 6	P=0.173N	P=0.503N	P=0.256N	P=0.254N
LOGISTIC REGRESSION	P=0.166N	P=0.485N	P=0.250N	P=0.248N
COCH-ARM / FISHERS	P=0.169N	P=0.500N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.082N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.098N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	2/45.58	5/45.53	3/42.82	3/43.35
POLY-3 PERCENT (g)	4.4%	11%	7%	6.9%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	3/33 (9%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	639	729 (T)	688

STATISTICAL TESTS

LIFE TABLE	P=0.596	P=0.224	P=0.500	P=0.470
POLY 3	P=0.580N	P=0.215	P=0.471	P=0.477
POLY 1.5	P=0.571N	P=0.214	P=0.476	P=0.484
POLY 6	P=0.586N	P=0.219	P=0.466	P=0.473
LOGISTIC REGRESSION	P=0.581N	P=0.214	P=0.500	P=0.469
COCH-ARM / FISHERS	P=0.551N	P=0.218	P=0.500	P=0.500
ORDER RESTRICTED	P=0.377	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.392	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	35/50 (70%)	29/50 (58%)	37/50 (74%)	38/50 (76%)
POLY-3 RATE (b)	35/47.49	29/46.89	37/45.12	38/47.92
POLY-3 PERCENT (g)	73.7%	61.9%	82%	79.3%
TERMINAL (d)	30/33 (91%)	24/34 (71%)	29/33 (88%)	27/31 (87%)
FIRST INCIDENCE	449	253	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.039*	P=0.108N	P=0.364	P=0.181
POLY 3	P=0.109	P=0.146N	P=0.225	P=0.336
POLY 1.5	P=0.109	P=0.148N	P=0.251	P=0.331
POLY 6	P=0.112	P=0.140N	P=0.203	P=0.351
LOGISTIC REGRESSION	P=0.069	P=0.164N	P=0.201	P=0.279
COCH-ARM / FISHERS	P=0.112	P=0.149N	P=0.412	P=0.326
ORDER RESTRICTED	P=0.095	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.104	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	5/45.58	3/44.91	3/42.82	2/43.19
POLY-3 PERCENT (g)	11%	6.7%	7%	4.6%
TERMINAL (d)	5/33 (15%)	3/34 (9%)	3/33 (9%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.254N	P=0.338N	P=0.354N	P=0.239N
POLY 3	P=0.244N	P=0.364N	P=0.391N	P=0.238N
POLY 1.5	P=0.238N	P=0.363N	P=0.385N	P=0.232N
POLY 6	P=0.248N	P=0.365N	P=0.398N	P=0.243N
LOGISTIC REGRESSION	P=0.254N	P=0.338N	P=0.354N	P=0.239N
COCH-ARM / FISHERS	P=0.225N	P=0.357N	P=0.357N	P=0.218N
ORDER RESTRICTED	P=0.199N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.217N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Liver				
Necrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.84	3/45.13	1/43.17	2/43.60
POLY-3 PERCENT (g)	2.2%	6.7%	2.3%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	659	701	631	667
STATISTICAL TESTS				
LIFE TABLE	P=0.551	P=0.305	P=0.729	P=0.469
POLY 3	P=0.561	P=0.300	P=0.747	P=0.482
POLY 1.5	P=0.567	P=0.301	P=0.749	P=0.488
POLY 6	P=0.557	P=0.299	P=0.745	P=0.480
LOGISTIC REGRESSION	P=0.586	P=0.306	P=0.743N	P=0.532
COCH-ARM / FISHERS	P=0.581	P=0.309	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.443	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.456	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Liver
 Regeneration**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.58	2/44.91	0/42.82	0/43.19
POLY-3 PERCENT (g)	0%	4.5%	0%	0%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.384N	P=0.245	(e)	(e)
POLY 3	P=0.377N	P=0.234	(e)	(e)
POLY 1.5	P=0.374N	P=0.235	(e)	(e)
POLY 6	P=0.379N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.245	(e)	(e)
COCH-ARM / FISHERS	P=0.369N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.255N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.272N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver: Bile Duct
 Cyst

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.58	2/44.93	1/42.82	0/43.19
POLY-3 PERCENT (g)	2.2%	4.5%	2.3%	0%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	1/33 (3%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	725	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.246N	P=0.510	P=0.762	P=0.512N
POLY 3	P=0.244N	P=0.495	P=0.747	P=0.511N
POLY 1.5	P=0.240N	P=0.496	P=0.749	P=0.507N
POLY 6	P=0.246N	P=0.495	P=0.744	P=0.513N
LOGISTIC REGRESSION	P=0.241N	P=0.502	P=0.762	(e)
COCH-ARM / FISHERS	P=0.231N	P=0.500	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.235N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	47/50 (94%)	46/50 (92%)	46/50 (92%)	45/50 (90%)
POLY-3 RATE (b)	47/49.63	46/48.43	46/47.56	45/47.53
POLY-3 PERCENT (g)	94.7%	95%	96.7%	94.7%
TERMINAL (d)	33/33 (100%)	33/34 (97%)	32/33 (97%)	31/31 (100%)
FIRST INCIDENCE	449	528	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.397	P=0.460N	P=0.558	P=0.500
POLY 3	P=0.603N	P=0.662	P=0.503	P=0.692N
POLY 1.5	P=0.471N	P=0.657N	P=0.512	P=0.559N
POLY 6	P=0.500	P=0.663	P=0.515	P=0.593
LOGISTIC REGRESSION	P=0.523N	P=0.590N	P=0.529	P=0.550N
COCH-ARM / FISHERS	P=0.328N	P=0.500N	P=0.500N	P=0.357N
ORDER RESTRICTED	P=0.619	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.624	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver: Centrilobular
 Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/46.38	5/46.26	3/42.99	4/43.98
POLY-3 PERCENT (g)	6.5%	10.8%	7%	9.1%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	1/31 (3%)
FIRST INCIDENCE	548	528	685	613

STATISTICAL TESTS

LIFE TABLE	P=0.515	P=0.355	P=0.636	P=0.466
POLY 3	P=0.524	P=0.355	P=0.627	P=0.471
POLY 1.5	P=0.534	P=0.354	P=0.634	P=0.480
POLY 6	P=0.517	P=0.358	P=0.618	P=0.466
LOGISTIC REGRESSION	P=0.576	P=0.413	P=0.658N	P=0.563
COCH-ARM / FISHERS	P=0.557	P=0.357	P=0.661N	P=0.500
ORDER RESTRICTED	P=0.514	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.525	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Liver: Centrilobular
 Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/45.88	0/44.91	1/43.09	1/43.37
POLY-3 PERCENT (g)	4.4%	0%	2.3%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	685	---	655	680

STATISTICAL TESTS

LIFE TABLE	P=0.640N	P=0.242N	P=0.532N	P=0.528N
POLY 3	P=0.626N	P=0.242N	P=0.522N	P=0.520N
POLY 1.5	P=0.623N	P=0.241N	P=0.518N	P=0.513N
POLY 6	P=0.627N	P=0.244N	P=0.527N	P=0.525N
LOGISTIC REGRESSION	P=0.615N	P=0.233N	P=0.491N	P=0.492N
COCH-ARM / FISHERS	P=0.619N	P=0.247N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.292N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.310N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	26/50 (52%)	25/50 (50%)	23/50 (46%)	24/50 (48%)
POLY-3 RATE (b)	26/47.19	25/46.82	23/44.60	24/46.70
POLY-3 PERCENT (g)	55.1%	53.4%	51.6%	51.4%
TERMINAL (d)	21/33 (64%)	18/34 (53%)	19/33 (58%)	16/31 (52%)
FIRST INCIDENCE	548	618	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.521	P=0.475N	P=0.372N	P=0.546N
POLY 3	P=0.418N	P=0.517N	P=0.448N	P=0.438N
POLY 1.5	P=0.420N	P=0.519N	P=0.433N	P=0.440N
POLY 6	P=0.408N	P=0.500N	P=0.469N	P=0.424N
LOGISTIC REGRESSION	P=0.468N	P=0.527N	P=0.452N	P=0.447N
COCH-ARM / FISHERS	P=0.411N	P=0.500N	P=0.345N	P=0.421N
ORDER RESTRICTED	P=0.560N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.564N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Lung Metaplasia Osseous				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.58	2/45.19	1/42.82	1/43.19
POLY-3 PERCENT (g)	0%	4.4%	2.3%	2.3%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	---	653	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.594	P=0.233	P=0.500	P=0.488
POLY 3	P=0.597	P=0.235	P=0.488	P=0.489
POLY 1.5	P=0.604	P=0.235	P=0.490	P=0.493
POLY 6	P=0.592	P=0.236	P=0.485	P=0.487
LOGISTIC REGRESSION	P=0.605	P=0.240	P=0.500	P=0.488
COCH-ARM / FISHERS	P=0.619	P=0.247	P=0.500	P=0.500
ORDER RESTRICTED	P=0.266	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.284	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	7/50 (14%)	5/50 (10%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	7/46.37	5/45.14	8/42.82	4/44.52
POLY-3 PERCENT (g)	15.1%	11.1%	18.7%	9%
TERMINAL (d)	5/33 (15%)	4/34 (12%)	8/33 (24%)	2/31 (7%)
FIRST INCIDENCE	548	667	729 (T)	299

STATISTICAL TESTS

LIFE TABLE	P=0.318N	P=0.375N	P=0.489	P=0.301N
POLY 3	P=0.288N	P=0.398N	P=0.433	P=0.284N
POLY 1.5	P=0.281N	P=0.393N	P=0.448	P=0.276N
POLY 6	P=0.295N	P=0.403N	P=0.414	P=0.291N
LOGISTIC REGRESSION	P=0.276N	P=0.384N	P=0.443	P=0.184N
COCH-ARM / FISHERS	P=0.270N	P=0.380N	P=0.500	P=0.262N
ORDER RESTRICTED	P=0.307N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.324N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	6/49 (12%)	10/50 (20%)	6/50 (12%)	8/49 (16%)
POLY-3 RATE (b)	6/44.81	10/45.25	6/43.85	8/43.71
POLY-3 PERCENT (g)	13.4%	22.1%	13.7%	18.3%
TERMINAL (d)	4/33 (12%)	7/34 (21%)	2/33 (6%)	5/31 (16%)
FIRST INCIDENCE	719	674	534	422
STATISTICAL TESTS				
LIFE TABLE	P=0.455	P=0.227	P=0.600	P=0.349
POLY 3	P=0.489	P=0.210	P=0.606	P=0.367
POLY 1.5	P=0.494	P=0.212	P=0.606	P=0.371
POLY 6	P=0.488	P=0.209	P=0.607	P=0.365
LOGISTIC REGRESSION	P=0.487	P=0.200	P=0.606	P=0.380
COCH-ARM / FISHERS	P=0.508	P=0.220	P=0.606N	P=0.387
ORDER RESTRICTED	P=0.426	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.434	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Mesentery: Fat
 Necrosis

LESION RATES

OVERALL (a)	4/5 (80%)	6/7 (86%)	8/9 (89%)	7/8 (88%)
POLY-3 RATE (b)	4/4.57	6/7.00	8/9.00	7/8.00
POLY-3 PERCENT (g)	87.4%	85.7%	88.9%	87.5%
TERMINAL (d)	4/4 (100%)	4/5 (80%)	5/6 (83%)	4/5 (80%)
FIRST INCIDENCE	729 (T)	528	610	586

STATISTICAL TESTS

LIFE TABLE	P=0.272	P=0.469	P=0.264	P=0.272
POLY 3	P=0.667	P=0.780N	P=0.789	P=0.806
POLY 1.5	P=0.629	P=0.764	P=0.717	P=0.739
POLY 6	P=0.664N	P=0.725N	P=0.777N	P=0.753N
LOGISTIC REGRESSION	P=0.584	P=0.673	P=0.694	P=0.638
COCH-ARM / FISHERS	P=0.584	P=0.682	P=0.604	P=0.641
ORDER RESTRICTED	P=0.710	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.711	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Nose Inflammation				
LESION RATES				
OVERALL (a)	17/50 (34%)	19/50 (38%)	19/50 (38%)	28/50 (56%)
POLY-3 RATE (b)	17/46.20	19/46.64	19/44.41	28/45.77
POLY-3 PERCENT (g)	36.8%	40.7%	42.8%	61.2%
TERMINAL (d)	12/33 (36%)	14/34 (41%)	14/33 (42%)	20/31 (65%)
FIRST INCIDENCE	667	528	534	422
STATISTICAL TESTS				
LIFE TABLE	P=0.007**	P=0.447	P=0.395	P=0.017*
POLY 3	P=0.007**	P=0.430	P=0.356	P=0.013*
POLY 1.5	P=0.008**	P=0.419	P=0.359	P=0.015*
POLY 6	P=0.006**	P=0.445	P=0.352	P=0.013*
LOGISTIC REGRESSION	P=0.007**	P=0.397	P=0.323	P=0.012*
COCH-ARM / FISHERS	P=0.012*	P=0.418	P=0.418	P=0.022*
ORDER RESTRICTED	P=0.010**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011*	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Nose: Goblet Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	23/50 (46%)	40/50 (80%)	42/50 (84%)	47/50 (94%)
POLY-3 RATE (b)	23/47.55	40/48.24	42/47.58	47/49.47
POLY-3 PERCENT (g)	48.4%	82.9%	88.3%	95%
TERMINAL (d)	18/33 (55%)	31/34 (91%)	31/33 (94%)	30/31 (97%)
FIRST INCIDENCE	449	253	19	299

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
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**
LOGISTIC REGRESSION	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**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Nose: Respiratory Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	3/50 (6%)	17/50 (34%)	31/50 (62%)	47/50 (94%)
POLY-3 RATE (b)	3/46.61	17/47.43	31/47.33	47/49.16
POLY-3 PERCENT (g)	6.4%	35.8%	65.5%	95.6%
TERMINAL (d)	1/33 (3%)	10/34 (29%)	22/33 (67%)	30/31 (97%)
FIRST INCIDENCE	449	253	19	299

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
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**
LOGISTIC REGRESSION	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**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Nose: Respiratory Epithelium
 Metaplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	8/50 (16%)	40/50 (80%)
POLY-3 RATE (b)	0/45.58	1/45.24	8/45.94	40/49.29
POLY-3 PERCENT (g)	0%	2.2%	17.4%	81.2%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	3/33 (9%)	24/31 (77%)
FIRST INCIDENCE	---	639	19	299

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.500	P=0.005**	P<0.001**
POLY 3	P<0.001**	P=0.498	P=0.004**	P<0.001**
POLY 1.5	P<0.001**	P=0.498	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.499	P=0.004**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.533	P=0.015*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.003**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Nose: Vein
 Thrombosis**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	0/44.91	2/43.42	2/43.83
POLY-3 PERCENT (g)	0%	0%	4.6%	4.6%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	639	613

STATISTICAL TESTS

LIFE TABLE	P=0.112	(e)	P=0.209	P=0.225
POLY 3	P=0.113	(e)	P=0.226	P=0.228
POLY 1.5	P=0.115	(e)	P=0.227	P=0.231
POLY 6	P=0.113	(e)	P=0.226	P=0.228
LOGISTIC REGRESSION	P=0.128	(e)	P=0.256	P=0.277
COCH-ARM / FISHERS	P=0.122	(e)	P=0.247	P=0.247
ORDER RESTRICTED	P=0.108	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.122	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pancreas: Acinus
 Atrophy**

LESION RATES

OVERALL (a)	18/49 (37%)	18/50 (36%)	16/50 (32%)	12/49 (24%)
POLY-3 RATE (b)	18/46.62	18/46.32	16/43.92	12/42.92
POLY-3 PERCENT (g)	38.6%	38.9%	36.4%	28%
TERMINAL (d)	12/33 (36%)	12/34 (35%)	13/33 (39%)	8/31 (26%)
FIRST INCIDENCE	548	618	534	639

STATISTICAL TESTS

LIFE TABLE	P=0.155N	P=0.560N	P=0.456N	P=0.207N
POLY 3	P=0.141N	P=0.574	P=0.501N	P=0.199N
POLY 1.5	P=0.121N	P=0.582N	P=0.474N	P=0.175N
POLY 6	P=0.162N	P=0.563	P=0.541N	P=0.225N
LOGISTIC REGRESSION	P=0.117N	P=0.561N	P=0.449N	P=0.165N
COCH-ARM / FISHERS	P=0.093N	P=0.553N	P=0.388N	P=0.137N
ORDER RESTRICTED	P=0.225N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.229N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pancreas: Acinus
 Hyperplasia**

LESION RATES

OVERALL (a)	2/49 (4%)	0/50 (0%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	2/44.91	0/44.91	3/42.92	3/42.37
POLY-3 PERCENT (g)	4.5%	0%	7%	7.1%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	2/33 (6%)	3/31 (10%)
FIRST INCIDENCE	677	---	702	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.204	P=0.245N	P=0.486	P=0.468
POLY 3	P=0.207	P=0.237N	P=0.479	P=0.474
POLY 1.5	P=0.213	P=0.236N	P=0.485	P=0.482
POLY 6	P=0.202	P=0.238N	P=0.472	P=0.466
LOGISTIC REGRESSION	P=0.205	P=0.234N	P=0.478	P=0.470
COCH-ARM / FISHERS	P=0.225	P=0.242N	P=0.510	P=0.500
ORDER RESTRICTED	P=0.219	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.236	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pancreas: Duct
 Cyst**

LESION RATES

OVERALL (a)	10/49 (20%)	10/50 (20%)	8/50 (16%)	7/49 (14%)
POLY-3 RATE (b)	10/45.94	10/45.16	8/43.39	7/42.62
POLY-3 PERCENT (g)	21.8%	22.1%	18.4%	16.4%
TERMINAL (d)	5/33 (15%)	8/34 (24%)	6/33 (18%)	5/31 (16%)
FIRST INCIDENCE	548	667	639	667

STATISTICAL TESTS

LIFE TABLE	P=0.292N	P=0.587N	P=0.440N	P=0.354N
POLY 3	P=0.283N	P=0.583	P=0.449N	P=0.357N
POLY 1.5	P=0.267N	P=0.595	P=0.434N	P=0.336N
POLY 6	P=0.297N	P=0.567	P=0.469N	P=0.378N
LOGISTIC REGRESSION	P=0.273N	P=0.590N	P=0.412N	P=0.324N
COCH-ARM / FISHERS	P=0.237N	P=0.579N	P=0.379N	P=0.297N
ORDER RESTRICTED	P=0.407N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.424N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
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Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pituitary Gland
 Angiectasis**

LESION RATES

OVERALL (a)	19/50 (38%)	9/50 (18%)	12/49 (24%)	8/50 (16%)
POLY-3 RATE (b)	19/46.65	9/46.08	12/44.16	8/45.03
POLY-3 PERCENT (g)	40.7%	19.5%	27.2%	17.8%
TERMINAL (d)	14/33 (42%)	7/34 (21%)	8/33 (24%)	4/31 (13%)
FIRST INCIDENCE	598	253	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.078N	P=0.024N*	P=0.123N	P=0.026N*
POLY 3	P=0.049N*	P=0.020N*	P=0.124N	P=0.012N*
POLY 1.5	P=0.047N*	P=0.020N*	P=0.122N	P=0.012N*
POLY 6	P=0.050N*	P=0.021N*	P=0.129N	P=0.013N*
LOGISTIC REGRESSION	P=0.044N*	P=0.022N*	P=0.128N	P=0.011N*
COCH-ARM / FISHERS	P=0.046N*	P=0.022N*	P=0.109N	P=0.012N*
ORDER RESTRICTED	P=0.006N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.010N**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
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Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pituitary Gland
 Cyst**

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)	7/49 (14%)	6/50 (12%)
POLY-3 RATE (b)	5/46.41	5/45.04	7/43.07	6/43.42
POLY-3 PERCENT (g)	10.8%	11.1%	16.3%	13.8%
TERMINAL (d)	2/33 (6%)	4/34 (12%)	6/33 (18%)	5/31 (16%)
FIRST INCIDENCE	606	697	662	667

STATISTICAL TESTS

LIFE TABLE	P=0.384	P=0.620N	P=0.356	P=0.452
POLY 3	P=0.394	P=0.611	P=0.327	P=0.453
POLY 1.5	P=0.411	P=0.617	P=0.339	P=0.469
POLY 6	P=0.379	P=0.603	P=0.312	P=0.438
LOGISTIC REGRESSION	P=0.402	P=0.628	P=0.346	P=0.479
COCH-ARM / FISHERS	P=0.442	P=0.630N	P=0.365	P=0.500
ORDER RESTRICTED	P=0.433	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.450	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
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 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Pituitary Gland: Pars Distalis
 Hyperplasia**

LESION RATES

OVERALL (a)	14/50 (28%)	13/50 (26%)	14/49 (29%)	12/50 (24%)
POLY-3 RATE (b)	14/46.48	13/45.79	14/43.86	12/44.98
POLY-3 PERCENT (g)	30.1%	28.4%	31.9%	26.7%
TERMINAL (d)	11/33 (33%)	9/34 (27%)	11/33 (33%)	6/31 (19%)
FIRST INCIDENCE	548	653	599	586

STATISTICAL TESTS

LIFE TABLE	P=0.484N	P=0.489N	P=0.562	P=0.482N
POLY 3	P=0.420N	P=0.518N	P=0.517	P=0.447N
POLY 1.5	P=0.414N	P=0.516N	P=0.527	P=0.440N
POLY 6	P=0.416N	P=0.516N	P=0.508	P=0.442N
LOGISTIC REGRESSION	P=0.428N	P=0.516N	P=0.516	P=0.432N
COCH-ARM / FISHERS	P=0.387N	P=0.500N	P=0.563	P=0.410N
ORDER RESTRICTED	P=0.561N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.568N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Preputial Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	4/50 (8%)	0/49 (0%)
POLY-3 RATE (b)	0/45.58	3/44.91	4/42.92	0/42.21
POLY-3 PERCENT (g)	0%	6.7%	9.3%	0%
TERMINAL (d)	0/33 (0%)	3/34 (9%)	3/33 (9%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	702	---

STATISTICAL TESTS

LIFE TABLE	P=0.321N	P=0.126	P=0.063	(e)
POLY 3	P=0.331N	P=0.116	P=0.053	(e)
POLY 1.5	P=0.322N	P=0.117	P=0.054	(e)
POLY 6	P=0.339N	P=0.115	P=0.051	(e)
LOGISTIC REGRESSION	P=0.325N	P=0.126	P=0.053	(e)
COCH-ARM / FISHERS	P=0.303N	P=0.121	P=0.059	(e)
ORDER RESTRICTED	P=0.149	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.168	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
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Date Report Requested: 04/10/2006
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 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Preputial Gland
 Inflammation**

LESION RATES

OVERALL (a)	47/50 (94%)	49/50 (98%)	45/50 (90%)	44/49 (90%)
POLY-3 RATE (b)	47/49.19	49/50.00	45/47.75	44/48.18
POLY-3 PERCENT (g)	95.5%	98%	94.2%	91.3%
TERMINAL (d)	32/33 (97%)	33/34 (97%)	31/33 (94%)	29/31 (94%)
FIRST INCIDENCE	548	253	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.503N	P=0.467	P=0.516N	P=0.568N
POLY 3	P=0.132N	P=0.449	P=0.570N	P=0.324N
POLY 1.5	P=0.121N	P=0.393	P=0.587N	P=0.320N
POLY 6	P=0.172N	P=0.499	P=0.568N	P=0.365N
LOGISTIC REGRESSION	P=0.192N	P=0.266	P=0.654N	P=0.404N
COCH-ARM / FISHERS	P=0.148N	P=0.309	P=0.357N	P=0.346N
ORDER RESTRICTED	P=0.158N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.168N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Prostate
 Atrophy**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.58	0/44.91	2/43.97	0/43.19
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	60	---

STATISTICAL TESTS

LIFE TABLE	P=0.709N	(e)	P=0.232	(e)
POLY 3	P=0.714N	(e)	P=0.229	(e)
POLY 1.5	P=0.709N	(e)	P=0.231	(e)
POLY 6	P=0.718N	(e)	P=0.227	(e)
LOGISTIC REGRESSION	P=0.702N	(e)	P=0.472	(e)
COCH-ARM / FISHERS	P=0.697N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.241	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.258	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Prostate
 Hyperplasia**

LESION RATES

OVERALL (a)	20/50 (40%)	20/50 (40%)	16/50 (32%)	22/50 (44%)
POLY-3 RATE (b)	20/46.25	20/46.75	16/45.34	22/46.66
POLY-3 PERCENT (g)	43.2%	42.8%	35.3%	47.2%
TERMINAL (d)	17/33 (52%)	12/34 (35%)	10/33 (30%)	14/31 (45%)
FIRST INCIDENCE	659	579	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.256	P=0.559N	P=0.300N	P=0.327
POLY 3	P=0.352	P=0.566N	P=0.285N	P=0.432
POLY 1.5	P=0.350	P=0.579N	P=0.297N	P=0.422
POLY 6	P=0.357	P=0.539N	P=0.269N	P=0.451
LOGISTIC REGRESSION	P=0.327	P=0.559	P=0.320N	P=0.399
COCH-ARM / FISHERS	P=0.348	P=0.581N	P=0.266N	P=0.420
ORDER RESTRICTED	P=0.405	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.413	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Prostate
 Inflammation**

LESION RATES

OVERALL (a)	25/50 (50%)	19/50 (38%)	26/50 (52%)	19/50 (38%)
POLY-3 RATE (b)	25/47.10	19/46.43	26/47.25	19/45.60
POLY-3 PERCENT (g)	53.1%	40.9%	55%	41.7%
TERMINAL (d)	18/33 (55%)	12/34 (35%)	15/33 (46%)	12/31 (39%)
FIRST INCIDENCE	598	579	60	396

STATISTICAL TESTS

LIFE TABLE	P=0.372N	P=0.169N	P=0.452	P=0.255N
POLY 3	P=0.269N	P=0.163N	P=0.507	P=0.182N
POLY 1.5	P=0.253N	P=0.164N	P=0.487	P=0.173N
POLY 6	P=0.289N	P=0.159N	P=0.538	P=0.194N
LOGISTIC REGRESSION	P=0.241N	P=0.169N	P=0.494	P=0.180N
COCH-ARM / FISHERS	P=0.234N	P=0.157N	P=0.500	P=0.157N
ORDER RESTRICTED	P=0.209N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.223N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Skin
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.58	0/44.91	2/42.82	0/43.19
POLY-3 PERCENT (g)	0%	0%	4.7%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	0/31 (0%)
FIRST INCIDENCE	---	---	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.715N	(e)	P=0.238	(e)
POLY 3	P=0.714N	(e)	P=0.223	(e)
POLY 1.5	P=0.709N	(e)	P=0.226	(e)
POLY 6	P=0.718N	(e)	P=0.221	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.238	(e)
COCH-ARM / FISHERS	P=0.697N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.236	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.252	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Spleen
 Atrophy**

LESION RATES

OVERALL (a)	1/49 (2%)	2/50 (4%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	1/44.71	2/46.08	3/44.35	2/43.21
POLY-3 PERCENT (g)	2.2%	4.3%	6.8%	4.6%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	253	60	396

STATISTICAL TESTS

LIFE TABLE	P=0.479	P=0.495	P=0.298	P=0.483
POLY 3	P=0.474	P=0.510	P=0.302	P=0.488
POLY 1.5	P=0.480	P=0.509	P=0.304	P=0.492
POLY 6	P=0.469	P=0.512	P=0.301	P=0.486
LOGISTIC REGRESSION	P=0.584	P=0.652	P=0.495	P=0.611
COCH-ARM / FISHERS	P=0.496	P=0.508	P=0.316	P=0.500
ORDER RESTRICTED	P=0.348	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.359	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Spleen
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	17/49 (35%)	16/50 (32%)	23/50 (46%)	18/49 (37%)
POLY-3 RATE (b)	17/46.66	16/45.94	23/44.24	18/45.08
POLY-3 PERCENT (g)	36.4%	34.8%	52%	39.9%
TERMINAL (d)	12/33 (36%)	12/34 (35%)	19/33 (58%)	12/31 (39%)
FIRST INCIDENCE	449	618	569	299

STATISTICAL TESTS

LIFE TABLE	P=0.326	P=0.481N	P=0.145	P=0.413
POLY 3	P=0.384	P=0.522N	P=0.096	P=0.448
POLY 1.5	P=0.397	P=0.508N	P=0.111	P=0.464
POLY 6	P=0.378	P=0.533N	P=0.081	P=0.440
LOGISTIC REGRESSION	P=0.391	P=0.476N	P=0.128	P=0.547
COCH-ARM / FISHERS	P=0.422	P=0.472N	P=0.173	P=0.500
ORDER RESTRICTED	P=0.244	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.256	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/45.15	1/45.12	1/43.30	2/44.23
POLY-3 PERCENT (g)	6.7%	2.2%	2.3%	4.5%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	653	674	586	422

STATISTICAL TESTS

LIFE TABLE	P=0.625N	P=0.318N	P=0.331N	P=0.536N
POLY 3	P=0.602N	P=0.305N	P=0.320N	P=0.509N
POLY 1.5	P=0.599N	P=0.304N	P=0.317N	P=0.503N
POLY 6	P=0.604N	P=0.308N	P=0.326N	P=0.515N
LOGISTIC REGRESSION	P=0.569N	P=0.288N	P=0.271N	P=0.378N
COCH-ARM / FISHERS	P=0.596N	P=0.301N	P=0.301N	P=0.490N
ORDER RESTRICTED	P=0.299N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.313N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Stomach, Forestomach
 Ulcer

LESION RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.15	2/45.45	0/42.82	0/43.19
POLY-3 PERCENT (g)	4.4%	4.4%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	653	639	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.138N	P=0.679	P=0.261N	P=0.265N
POLY 3	P=0.124N	P=0.691N	P=0.249N	P=0.247N
POLY 1.5	P=0.123N	P=0.690N	P=0.246N	P=0.242N
POLY 6	P=0.126N	P=0.692N	P=0.254N	P=0.252N
LOGISTIC REGRESSION	P=0.113N	P=0.661N	P=0.219N	P=0.211N
COCH-ARM / FISHERS	P=0.120N	P=0.684N	P=0.242N	P=0.242N
ORDER RESTRICTED	P=0.124N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.140N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Testes: Interstitial Cell
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	0/44.91	0/42.82	2/44.14
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	586

STATISTICAL TESTS

LIFE TABLE	P=0.040*	(e)	(e)	P=0.228
POLY 3	P=0.039*	(e)	(e)	P=0.230
POLY 1.5	P=0.040*	(e)	(e)	P=0.232
POLY 6	P=0.039*	(e)	(e)	P=0.230
LOGISTIC REGRESSION	P=0.041*	(e)	(e)	P=0.328
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.027*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thymus
 Atrophy**

LESION RATES

OVERALL (a)	44/47 (94%)	39/43 (91%)	43/47 (91%)	47/48 (98%)
POLY-3 RATE (b)	44/46.60	39/41.31	43/45.29	47/47.49
POLY-3 PERCENT (g)	94.4%	94.4%	94.9%	99%
TERMINAL (d)	30/31 (97%)	29/29 (100%)	30/31 (97%)	30/30 (100%)
FIRST INCIDENCE	449	528	60	299

STATISTICAL TESTS

LIFE TABLE	P=0.110	P=0.374N	P=0.569	P=0.235
POLY 3	P=0.145	P=0.693N	P=0.648	P=0.235
POLY 1.5	P=0.154	P=0.620N	P=0.659	P=0.259
POLY 6	P=0.135	P=0.662	P=0.637	P=0.217
LOGISTIC REGRESSION	P=0.107	P=0.559N	P=0.665	P=0.258
COCH-ARM / FISHERS	P=0.154	P=0.450N	P=0.500N	P=0.301
ORDER RESTRICTED	P=0.167	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.182	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland
 Cyst**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/45.58	2/45.14	0/42.82	0/42.36
POLY-3 PERCENT (g)	4.4%	4.4%	0%	0%
TERMINAL (d)	2/33 (6%)	1/34 (3%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	667	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.132N	P=0.692N	P=0.238N	P=0.252N
POLY 3	P=0.128N	P=0.690	P=0.251N	P=0.254N
POLY 1.5	P=0.127N	P=0.690	P=0.249N	P=0.250N
POLY 6	P=0.129N	P=0.692	P=0.254N	P=0.256N
LOGISTIC REGRESSION	P=0.131N	P=0.690	(e)	(e)
COCH-ARM / FISHERS	P=0.124N	P=0.691N	P=0.247N	P=0.253N
ORDER RESTRICTED	P=0.129N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.145N	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	25/50 (50%)	21/50 (42%)	17/50 (34%)	6/49 (12%)
POLY-3 RATE (b)	25/47.03	21/46.25	17/43.42	6/42.38
POLY-3 PERCENT (g)	53.2%	45.4%	39.2%	14.2%
TERMINAL (d)	19/33 (58%)	18/34 (53%)	15/33 (46%)	5/31 (16%)
FIRST INCIDENCE	598	528	631	725

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.247N	P=0.093N	P<0.001N**
POLY 3	P<0.001N**	P=0.292N	P=0.126N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.288N	P=0.115N	P<0.001N**
POLY 6	P<0.001N**	P=0.299N	P=0.144N	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.293N	P=0.126N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.274N	P=0.078N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: Follicular Cell
 Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	0/49 (0%)
POLY-3 RATE (b)	0/45.58	0/44.91	4/44.35	0/42.36
POLY-3 PERCENT (g)	0%	0%	9%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	0/31 (0%)
FIRST INCIDENCE	---	---	534	---

STATISTICAL TESTS

LIFE TABLE	P=0.636N	(e)	P=0.062	(e)
POLY 3	P=0.655N	(e)	P=0.057	(e)
POLY 1.5	P=0.647N	(e)	P=0.056	(e)
POLY 6	P=0.660N	(e)	P=0.057	(e)
LOGISTIC REGRESSION	P=0.603N	(e)	P=0.082	(e)
COCH-ARM / FISHERS	P=0.626N	(e)	P=0.059	(e)
ORDER RESTRICTED	P=0.105	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.122	(e)	(e)	(e)

TDMS No. 05174-05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:49:25
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: Follicular Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	4/49 (8%)
POLY-3 RATE (b)	1/45.79	1/44.91	1/43.14	4/42.54
POLY-3 PERCENT (g)	2.2%	2.2%	2.3%	9.4%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	2/31 (7%)
FIRST INCIDENCE	674	729 (T)	639	688

STATISTICAL TESTS

LIFE TABLE	P=0.051	P=0.755	P=0.731	P=0.167
POLY 3	P=0.049*	P=0.756	P=0.747	P=0.157
POLY 1.5	P=0.051	P=0.757	P=0.749	P=0.162
POLY 6	P=0.048*	P=0.755	P=0.745	P=0.153
LOGISTIC REGRESSION	P=0.051	P=0.762	P=0.749N	P=0.159
COCH-ARM / FISHERS	P=0.055	P=0.753N	P=0.753N	P=0.175
ORDER RESTRICTED	P=0.060	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.073	(e)	(e)	(e)

TDMS No. 05174-05
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
CRESOLS
CAS Number: 1319-77-3
Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
Time Report Requested: 7:49:25
First Dose M/F: 08/05/02 / NA
Lab: BAT

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.
 - (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. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
 - (e) Value of Statistic cannot be computed.
 - (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
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***