

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
CRESOLS
CAS Number: 1319-77-3
Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.
F1_R2Males

Date Report Reqsted: 04/10/2006
Time Report Reqsted: 7:46:26
First Dose M/F: 08/05/02 / NA
Lab: BAT

C Number: C62260B

Lock Date: 02/09/2005

Cage Range: 1 - 9999

Date Range: 1-JAN-1940 to 17-SEP-2040

Reasons For Removal: ALL

Removal Date Range: JAN /1 /1940 - SEP /17 /2040

Treatment Groups: Include 1 0 PPM

Include 2 1500 PPM

Include 3 5000 PPM

Include 4 15000 PPM

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex
Adrenal Medulla
Brain
Clitoral/Preputial Gland
Islets, Pancreatic
Kidney
Liver
Lung
Pancreas
Parathyroid Gland
Pituitary Gland
Salivary Glands
Spleen
Testes
Thyroid Gland
Urinary Bladder

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

MALE RATS

<u>Organ</u>	<u>Morphology</u>
Kidney: Renal Tubule	Adenoma
Pituitary Gland: Pars Distalis or Unspecified Site	Adenoma
Skin	Carcinoma or Adenoma
	Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B),
	Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma,
	Keratoacanthoma, Trichoepithelioma
Stomach, Forestomach	Squamous Cell Carcinoma or Papilloma Squamous
All Organs	Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
	Benign Tumors

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	8/50 (16%)	5/50 (10%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	8/45.99	5/44.91	6/42.92	5/43.21
POLY-3 PERCENT (g)	17.4%	11.1%	14%	11.6%
TERMINAL (d)	6/33 (18%)	5/34 (15%)	5/33 (15%)	4/31 (13%)
FIRST INCIDENCE	665	729 (T)	702	724

STATISTICAL TESTS

LIFE TABLE	P=0.388N	P=0.267N	P=0.405N	P=0.320N
POLY 3	P=0.370N	P=0.291N	P=0.440N	P=0.317N
POLY 1.5	P=0.358N	P=0.287N	P=0.430N	P=0.303N
POLY 6	P=0.381N	P=0.296N	P=0.454N	P=0.330N
LOGISTIC REGRESSION	P=0.379N	P=0.285N	P=0.447N	P=0.320N
COCH-ARM / FISHERS	P=0.334N	P=0.277N	P=0.387N	P=0.277N
ORDER RESTRICTED	P=0.334N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.354N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Clitoral/Preputial Gland
 Adenoma**

TUMOR RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)	2/50 (4%)	4/49 (8%)
POLY-3 RATE (b)	5/46.35	1/45.22	2/42.82	4/42.91
POLY-3 PERCENT (g)	10.8%	2.2%	4.7%	9.3%
TERMINAL (d)	4/33 (12%)	0/34 (0%)	2/33 (6%)	2/31 (7%)
FIRST INCIDENCE	449	645	729 (T)	590

STATISTICAL TESTS

LIFE TABLE	P=0.418	P=0.105N	P=0.219N	P=0.541N
POLY 3	P=0.429	P=0.107N	P=0.249N	P=0.548N
POLY 1.5	P=0.435	P=0.106N	P=0.243N	P=0.538N
POLY 6	P=0.426	P=0.107N	P=0.256N	P=0.553N
LOGISTIC REGRESSION	P=0.454	P=0.085N	P=0.216N	P=0.471N
COCH-ARM / FISHERS	P=0.447	P=0.102N	P=0.218N	P=0.513N
ORDER RESTRICTED	P=0.241N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	(e)	(e)	(e)

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Islets, Pancreatic
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	2/49 (4%)	2/50 (4%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	2/44.71	2/45.02	1/42.82	2/42.39
POLY-3 PERCENT (g)	4.5%	4.4%	2.3%	4.7%
TERMINAL (d)	2/33 (6%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	701	729 (T)	725

STATISTICAL TESTS

LIFE TABLE	P=0.591	P=0.683N	P=0.500N	P=0.674
POLY 3	P=0.597	P=0.691N	P=0.515N	P=0.675
POLY 1.5	P=0.603	P=0.691N	P=0.511N	P=0.680
POLY 6	P=0.593	P=0.692N	P=0.520N	P=0.671
LOGISTIC REGRESSION	P=0.596	P=0.696	P=0.500N	P=0.682
COCH-ARM / FISHERS	P=0.616	P=0.684N	P=0.492N	P=0.691N
ORDER RESTRICTED	P=0.638N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.641N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Kidney: Renal Tubule
 Adenoma**

TUMOR RATES

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

STATISTICAL TESTS

LIFE TABLE	P=0.007**	(e)	(e)	P=0.110
POLY 3	P=0.007**	(e)	(e)	P=0.109
POLY 1.5	P=0.008**	(e)	(e)	P=0.112
POLY 6	P=0.007**	(e)	(e)	P=0.107
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.110
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.006**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/45.58	0/44.91	3/42.82	1/43.19
POLY-3 PERCENT (g)	2.2%	0%	7%	2.3%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	3/33 (9%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.531	P=0.494N	P=0.304	P=0.748
POLY 3	P=0.532	P=0.503N	P=0.283	P=0.749
POLY 1.5	P=0.540	P=0.502N	P=0.287	P=0.752
POLY 6	P=0.526	P=0.503N	P=0.278	P=0.746
LOGISTIC REGRESSION	P=0.531	(e)	P=0.304	P=0.748
COCH-ARM / FISHERS	P=0.558	P=0.500N	P=0.309	P=0.753N
ORDER RESTRICTED	P=0.248	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.265	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Lung
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/45.58	1/44.91	3/42.82	1/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	7%	2.3%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	3/33 (9%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.633	P=0.755N	P=0.304	P=0.748
POLY 3	P=0.632	P=0.757	P=0.283	P=0.749
POLY 1.5	P=0.633N	P=0.758	P=0.287	P=0.752
POLY 6	P=0.626	P=0.757	P=0.278	P=0.746
LOGISTIC REGRESSION	P=0.633	P=0.755N	P=0.304	P=0.748
COCH-ARM / FISHERS	P=0.618N	P=0.753N	P=0.309	P=0.753N
ORDER RESTRICTED	P=0.414	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.429	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.58	1/44.91	2/43.23	1/43.19
POLY-3 PERCENT (g)	0%	2.2%	4.6%	2.3%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	---	729 (T)	610	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.475	P=0.506	P=0.232	P=0.488
POLY 3	P=0.475	P=0.497	P=0.225	P=0.489
POLY 1.5	P=0.483	P=0.498	P=0.227	P=0.493
POLY 6	P=0.469	P=0.497	P=0.224	P=0.487
LOGISTIC REGRESSION	P=0.493	P=0.506	P=0.244	P=0.488
COCH-ARM / FISHERS	P=0.500	P=0.500	P=0.247	P=0.500
ORDER RESTRICTED	P=0.214	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.232	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/45.58	1/44.91	2/43.23	1/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	4.6%	2.3%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	610	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.638	P=0.755N	P=0.492	P=0.748
POLY 3	P=0.639	P=0.757	P=0.482	P=0.749
POLY 1.5	P=0.646	P=0.758	P=0.484	P=0.752
POLY 6	P=0.634	P=0.757	P=0.480	P=0.746
LOGISTIC REGRESSION	P=0.651	P=0.755N	P=0.498	P=0.748
COCH-ARM / FISHERS	P=0.640N	P=0.753N	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.562	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.571	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/45.58	1/44.91	2/43.23	1/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	4.6%	2.3%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	610	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.638	P=0.755N	P=0.492	P=0.748
POLY 3	P=0.639	P=0.757	P=0.482	P=0.749
POLY 1.5	P=0.646	P=0.758	P=0.484	P=0.752
POLY 6	P=0.634	P=0.757	P=0.480	P=0.746
LOGISTIC REGRESSION	P=0.651	P=0.755N	P=0.498	P=0.748
COCH-ARM / FISHERS	P=0.640N	P=0.753N	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.562	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.571	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR RATES

OVERALL (a)	20/50 (40%)	14/50 (28%)	9/49 (18%)	8/50 (16%)
POLY-3 RATE (b)	20/46.85	14/46.36	9/44.49	8/44.01
POLY-3 PERCENT (g)	42.7%	30.2%	20.2%	18.2%
TERMINAL (d)	14/33 (42%)	11/34 (32%)	4/33 (12%)	6/31 (19%)
FIRST INCIDENCE	598	253	534	422

STATISTICAL TESTS

LIFE TABLE	P=0.023N*	P=0.149N	P=0.026N*	P=0.016N*
POLY 3	P=0.013N*	P=0.147N	P=0.016N*	P=0.009N**
POLY 1.5	P=0.012N*	P=0.145N	P=0.016N*	P=0.007N**
POLY 6	P=0.015N*	P=0.154N	P=0.016N*	P=0.010N**
LOGISTIC REGRESSION	P=0.011N*	P=0.147N	P=0.018N*	P=0.009N**
COCH-ARM / FISHERS	P=0.011N*	P=0.146N	P=0.016N*	P=0.007N**
ORDER RESTRICTED	P=0.005N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.008N**	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR RATES

OVERALL (a)	20/50 (40%)	14/50 (28%)	9/49 (18%)	9/50 (18%)
POLY-3 RATE (b)	20/46.85	14/46.36	9/44.49	9/44.85
POLY-3 PERCENT (g)	42.7%	30.2%	20.2%	20.1%
TERMINAL (d)	14/33 (42%)	11/34 (32%)	4/33 (12%)	6/31 (19%)
FIRST INCIDENCE	598	253	534	396

STATISTICAL TESTS

LIFE TABLE	P=0.043N*	P=0.149N	P=0.026N*	P=0.029N*
POLY 3	P=0.024N*	P=0.147N	P=0.016N*	P=0.015N*
POLY 1.5	P=0.022N*	P=0.145N	P=0.016N*	P=0.014N*
POLY 6	P=0.025N*	P=0.154N	P=0.016N*	P=0.017N*
LOGISTIC REGRESSION	P=0.020N*	P=0.147N	P=0.018N*	P=0.014N*
COCH-ARM / FISHERS	P=0.021N*	P=0.146N	P=0.016N*	P=0.013N*
ORDER RESTRICTED	P=0.009N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.013N*	(e)	(e)	(e)

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 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Skin
 Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.58	1/45.3	2/42.82	1/43.19
POLY-3 PERCENT (g)	0%	2.2%	4.7%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	1/31 (3%)
FIRST INCIDENCE	---	618	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.474	P=0.504	P=0.238	P=0.488
POLY 3	P=0.474	P=0.499	P=0.223	P=0.489
POLY 1.5	P=0.482	P=0.499	P=0.226	P=0.493
POLY 6	P=0.467	P=0.500	P=0.221	P=0.487
LOGISTIC REGRESSION	P=0.492	P=0.548	P=0.238	P=0.488
COCH-ARM / FISHERS	P=0.500	P=0.500	P=0.247	P=0.500
ORDER RESTRICTED	P=0.212	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.231	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Skin
 Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.58	1/45.3	2/42.82	1/43.19
POLY-3 PERCENT (g)	0%	2.2%	4.7%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	1/31 (3%)
FIRST INCIDENCE	---	618	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.474	P=0.504	P=0.238	P=0.488
POLY 3	P=0.474	P=0.499	P=0.223	P=0.489
POLY 1.5	P=0.482	P=0.499	P=0.226	P=0.493
POLY 6	P=0.467	P=0.500	P=0.221	P=0.487
LOGISTIC REGRESSION	P=0.492	P=0.548	P=0.238	P=0.488
COCH-ARM / FISHERS	P=0.500	P=0.500	P=0.247	P=0.500
ORDER RESTRICTED	P=0.212	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.231	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	1/46.03	2/45.3	6/42.82	3/43.19
POLY-3 PERCENT (g)	2.2%	4.4%	14%	7%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	6/33 (18%)	3/31 (10%)
FIRST INCIDENCE	598	618	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.290	P=0.503	P=0.057	P=0.280
POLY 3	P=0.290	P=0.494	P=0.045*	P=0.283
POLY 1.5	P=0.304	P=0.496	P=0.047*	P=0.290
POLY 6	P=0.277	P=0.494	P=0.042*	P=0.276
LOGISTIC REGRESSION	P=0.310	P=0.545	P=0.049*	P=0.300
COCH-ARM / FISHERS	P=0.333	P=0.500	P=0.056	P=0.309
ORDER RESTRICTED	P=0.088	(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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/45.74	1/45.21	3/42.93	3/43.21
POLY-3 PERCENT (g)	2.2%	2.2%	7%	6.9%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	2/33 (6%)	2/31 (7%)
FIRST INCIDENCE	690	648	699	724
STATISTICAL TESTS				
LIFE TABLE	P=0.179	P=0.753	P=0.301	P=0.287
POLY 3	P=0.182	P=0.758	P=0.283	P=0.285
POLY 1.5	P=0.189	P=0.758	P=0.287	P=0.292
POLY 6	P=0.176	P=0.758	P=0.278	P=0.279
LOGISTIC REGRESSION	P=0.187	P=0.750N	P=0.282	P=0.281
COCH-ARM / FISHERS	P=0.202	P=0.753N	P=0.309	P=0.309
ORDER RESTRICTED	P=0.218	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.238	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	4/46.02	1/45.21	6/43.79	5/43.21
POLY-3 PERCENT (g)	8.7%	2.2%	13.7%	11.6%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	3/33 (9%)	4/31 (13%)
FIRST INCIDENCE	653	648	534	724

STATISTICAL TESTS

LIFE TABLE	P=0.211	P=0.191N	P=0.349	P=0.457
POLY 3	P=0.212	P=0.184N	P=0.338	P=0.461
POLY 1.5	P=0.223	P=0.183N	P=0.342	P=0.474
POLY 6	P=0.201	P=0.185N	P=0.334	P=0.448
LOGISTIC REGRESSION	P=0.235	P=0.173N	P=0.366	P=0.460
COCH-ARM / FISHERS	P=0.245	P=0.181N	P=0.370	P=0.500
ORDER RESTRICTED	P=0.183	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.203	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Skin				
Fibrosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/45.58	0/44.91	1/43.42	2/43.19
POLY-3 PERCENT (g)	4.4%	0%	2.3%	4.6%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/33 (0%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	---	534	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.380	P=0.232N	P=0.502N	P=0.673
POLY 3	P=0.390	P=0.240N	P=0.517N	P=0.674
POLY 1.5	P=0.395	P=0.240N	P=0.515N	P=0.680
POLY 6	P=0.386	P=0.241N	P=0.519N	P=0.670
LOGISTIC REGRESSION	P=0.403	(e)	P=0.476N	P=0.673
COCH-ARM / FISHERS	P=0.404	P=0.247N	P=0.500N	P=0.691N
ORDER RESTRICTED	P=0.391	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.406	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	3/45.86	0/44.91	3/43.67	2/43.19
POLY-3 PERCENT (g)	6.5%	0%	6.9%	4.6%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	1/33 (3%)	2/31 (7%)
FIRST INCIDENCE	653	---	534	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.541	P=0.125N	P=0.634	P=0.535N
POLY 3	P=0.550	P=0.122N	P=0.640	P=0.527N
POLY 1.5	P=0.558	P=0.122N	P=0.642	P=0.518N
POLY 6	P=0.543	P=0.123N	P=0.637	P=0.535N
LOGISTIC REGRESSION	P=0.575	P=0.121N	P=0.647N	P=0.527N
COCH-ARM / FISHERS	P=0.573	P=0.121N	P=0.661N	P=0.500N
ORDER RESTRICTED	P=0.421N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.437N	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/46.03	1/44.91	3/42.82	2/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	7%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	3/33 (9%)	2/31 (7%)
FIRST INCIDENCE	598	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.365	P=0.759N	P=0.299	P=0.473
POLY 3	P=0.370	P=0.755	P=0.280	P=0.478
POLY 1.5	P=0.380	P=0.757	P=0.285	P=0.485
POLY 6	P=0.362	P=0.754	P=0.273	P=0.471
LOGISTIC REGRESSION	P=0.380	P=0.747N	P=0.295	P=0.510
COCH-ARM / FISHERS	P=0.399	P=0.753N	P=0.309	P=0.500
ORDER RESTRICTED	P=0.299	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.320	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Skin
 Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	0/44.91	1/42.99	2/43.67
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	685	586

STATISTICAL TESTS

LIFE TABLE	P=0.077	(e)	P=0.484	P=0.228
POLY 3	P=0.078	(e)	P=0.488	P=0.228
POLY 1.5	P=0.080	(e)	P=0.490	P=0.230
POLY 6	P=0.078	(e)	P=0.487	P=0.226
LOGISTIC REGRESSION	P=0.086	(e)	P=0.501	P=0.262
COCH-ARM / FISHERS	P=0.084	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.068	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Skin
 Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/46.03	1/44.91	4/42.82	2/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	9.3%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	4/33 (12%)	2/31 (7%)
FIRST INCIDENCE	598	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.378	P=0.759N	P=0.176	P=0.473
POLY 3	P=0.380	P=0.755	P=0.157	P=0.478
POLY 1.5	P=0.392	P=0.757	P=0.162	P=0.485
POLY 6	P=0.371	P=0.754	P=0.152	P=0.471
LOGISTIC REGRESSION	P=0.392	P=0.747N	P=0.166	P=0.510
COCH-ARM / FISHERS	P=0.414	P=0.753N	P=0.181	P=0.500
ORDER RESTRICTED	P=0.214	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Skin
 Squamous Cell Papilloma, Papilloma, or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/46.03	1/44.91	4/42.82	2/43.19
POLY-3 PERCENT (g)	2.2%	2.2%	9.3%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	4/33 (12%)	2/31 (7%)
FIRST INCIDENCE	598	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.378	P=0.759N	P=0.176	P=0.473
POLY 3	P=0.380	P=0.755	P=0.157	P=0.478
POLY 1.5	P=0.392	P=0.757	P=0.162	P=0.485
POLY 6	P=0.371	P=0.754	P=0.152	P=0.471
LOGISTIC REGRESSION	P=0.392	P=0.747N	P=0.166	P=0.510
COCH-ARM / FISHERS	P=0.414	P=0.753N	P=0.181	P=0.500
ORDER RESTRICTED	P=0.214	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR 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	3/43.56
POLY-3 PERCENT (g)	0%	0%	2.3%	6.9%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	2/31 (7%)
FIRST INCIDENCE	---	---	729 (T)	625

STATISTICAL TESTS

LIFE TABLE	P=0.017*	(e)	P=0.500	P=0.110
POLY 3	P=0.019*	(e)	P=0.488	P=0.111
POLY 1.5	P=0.019*	(e)	P=0.490	P=0.113
POLY 6	P=0.018*	(e)	P=0.485	P=0.109
LOGISTIC REGRESSION	P=0.020*	(e)	P=0.500	P=0.118
COCH-ARM / FISHERS	P=0.021*	(e)	P=0.500	P=0.121
ORDER RESTRICTED	P=0.018*	(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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Stomach, Forestomach
 Squamous Cell Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	0/44.91	1/42.82	2/43.56
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	---	---	729 (T)	625

STATISTICAL TESTS

LIFE TABLE	P=0.074	(e)	P=0.500	P=0.223
POLY 3	P=0.078	(e)	P=0.488	P=0.227
POLY 1.5	P=0.080	(e)	P=0.490	P=0.230
POLY 6	P=0.077	(e)	P=0.485	P=0.226
LOGISTIC REGRESSION	P=0.082	(e)	P=0.500	P=0.247
COCH-ARM / FISHERS	P=0.084	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.068	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

Testes
 Adenoma

TUMOR RATES

OVERALL (a)	49/50 (98%)	48/50 (96%)	44/50 (88%)	47/50 (94%)
POLY-3 RATE (b)	49/50	48/48.83	44/46.81	47/47.42
POLY-3 PERCENT (g)	98%	98.3%	94%	99.1%
TERMINAL (d)	32/33 (97%)	34/34 (100%)	32/33 (97%)	31/31 (100%)
FIRST INCIDENCE	449	528	534	576

STATISTICAL TESTS

LIFE TABLE	P=0.381	P=0.460N	P=0.312N	P=0.489
POLY 3	P=0.502	P=0.748	P=0.300N	P=0.672
POLY 1.5	P=0.636N	P=0.744N	P=0.226N	P=0.762N
POLY 6	P=0.406	P=0.708	P=0.416N	P=0.540
LOGISTIC REGRESSION	P=0.583	P=0.647N	P=0.171N	P=0.737N
COCH-ARM / FISHERS	P=0.333N	P=0.500N	P=0.056N	P=0.309N
ORDER RESTRICTED	P=0.334	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.351	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	6/50 (12%)	7/50 (14%)	5/50 (10%)	8/49 (16%)
POLY-3 RATE (b)	6/46.46	7/45.02	5/42.82	8/42.76
POLY-3 PERCENT (g)	12.9%	15.6%	11.7%	18.7%
TERMINAL (d)	4/33 (12%)	6/34 (18%)	5/33 (15%)	6/31 (19%)
FIRST INCIDENCE	449	701	729 (T)	667

STATISTICAL TESTS

LIFE TABLE	P=0.292	P=0.516	P=0.506N	P=0.341
POLY 3	P=0.293	P=0.476	P=0.557N	P=0.323
POLY 1.5	P=0.306	P=0.482	P=0.545N	P=0.337
POLY 6	P=0.287	P=0.471	P=0.571N	P=0.315
LOGISTIC REGRESSION	P=0.294	P=0.496	P=0.527N	P=0.355
COCH-ARM / FISHERS	P=0.332	P=0.500	P=0.500N	P=0.371
ORDER RESTRICTED	P=0.350	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.368	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: C-Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	1/45.58	1/44.91	2/42.92	2/42.52
POLY-3 PERCENT (g)	2.2%	2.2%	4.7%	4.7%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	1/33 (3%)	1/31 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	702	688

STATISTICAL TESTS

LIFE TABLE	P=0.355	P=0.755N	P=0.493	P=0.476
POLY 3	P=0.354	P=0.757	P=0.479	P=0.476
POLY 1.5	P=0.360	P=0.758	P=0.482	P=0.481
POLY 6	P=0.352	P=0.757	P=0.476	P=0.473
LOGISTIC REGRESSION	P=0.352	P=0.755N	P=0.473	P=0.472
COCH-ARM / FISHERS	P=0.373	P=0.753N	P=0.500	P=0.492
ORDER RESTRICTED	P=0.411	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.426	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: C-Cell
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	7/50 (14%)	8/50 (16%)	7/50 (14%)	9/49 (18%)
POLY-3 RATE (b)	7/46.46	8/45.02	7/42.92	9/42.92
POLY-3 PERCENT (g)	15.1%	17.8%	16.3%	21%
TERMINAL (d)	5/33 (15%)	7/34 (21%)	6/33 (18%)	6/31 (19%)
FIRST INCIDENCE	449	701	702	667

STATISTICAL TESTS

LIFE TABLE	P=0.301	P=0.519	P=0.604	P=0.343
POLY 3	P=0.303	P=0.474	P=0.551	P=0.326
POLY 1.5	P=0.316	P=0.481	P=0.564	P=0.340
POLY 6	P=0.299	P=0.468	P=0.538	P=0.321
LOGISTIC REGRESSION	P=0.301	P=0.492	P=0.576	P=0.355
COCH-ARM / FISHERS	P=0.345	P=0.500	P=0.613N	P=0.376
ORDER RESTRICTED	P=0.367	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.384	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Thyroid Gland: Follicular Cell
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/45.58	1/44.91	2/42.97	0/42.36
POLY-3 PERCENT (g)	0%	2.2%	4.7%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	690	---

STATISTICAL TESTS

LIFE TABLE	P=0.540N	P=0.506	P=0.234	(e)
POLY 3	P=0.540N	P=0.497	P=0.224	(e)
POLY 1.5	P=0.534N	P=0.498	P=0.226	(e)
POLY 6	P=0.544N	P=0.497	P=0.222	(e)
LOGISTIC REGRESSION	P=0.535N	P=0.506	P=0.224	(e)
COCH-ARM / FISHERS	P=0.521N	P=0.500	P=0.247	(e)
ORDER RESTRICTED	P=0.314	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.333	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**Zymbal's Gland
 Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/46.16	2/45.21	0/42.82	2/44.44
POLY-3 PERCENT (g)	2.2%	4.4%	0%	4.5%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	548	648	---	299

STATISTICAL TESTS

LIFE TABLE	P=0.443	P=0.493	P=0.513N	P=0.482
POLY 3	P=0.456	P=0.493	P=0.515N	P=0.487
POLY 1.5	P=0.459	P=0.494	P=0.512N	P=0.491
POLY 6	P=0.453	P=0.492	P=0.519N	P=0.483
LOGISTIC REGRESSION	P=0.504	P=0.552	P=0.409N	P=0.713N
COCH-ARM / FISHERS	P=0.465	P=0.500	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.396	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.408	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

All Organs
 Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES	#	#	#	#
OVERALL (a)	15/50 (30%)	21/50 (42%)	13/50 (26%)	10/50 (20%)
POLY-3 RATE (b)	15/47.24	21/47.8	13/45.18	10/44.16
POLY-3 PERCENT (g)	31.8%	43.9%	28.8%	22.6%
TERMINAL (d)	6/33 (18%)	11/34 (32%)	7/33 (21%)	5/31 (16%)
FIRST INCIDENCE	606	528	534	613

STATISTICAL TESTS

LIFE TABLE	P=0.093N	P=0.188	P=0.478N	P=0.255N
POLY 3	P=0.063N	P=0.154	P=0.466N	P=0.229N
POLY 1.5	P=0.053N	P=0.149	P=0.462N	P=0.211N
POLY 6	P=0.074N	P=0.163	P=0.474N	P=0.248N
LOGISTIC REGRESSION	P=0.042N*	P=0.156	P=0.416N	P=0.195N
COCH-ARM / FISHERS	P=0.041N*	P=0.149	P=0.412N	P=0.178N
ORDER RESTRICTED	P=0.088N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.102N	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.74	1/44.91	1/43.3	2/43.93
POLY-3 PERCENT (g)	2.2%	2.2%	2.3%	4.6%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/31 (0%)
FIRST INCIDENCE	690	729 (T)	586	576

STATISTICAL TESTS

LIFE TABLE	P=0.343	P=0.757N	P=0.747	P=0.476
POLY 3	P=0.349	P=0.757	P=0.748	P=0.486
POLY 1.5	P=0.353	P=0.757	P=0.750	P=0.490
POLY 6	P=0.349	P=0.756	P=0.747	P=0.485
LOGISTIC REGRESSION	P=0.376	P=0.760	P=0.739N	P=0.569
COCH-ARM / FISHERS	P=0.360	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.396	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.409	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

All Organs
 Mesothelioma: Benign, Malignant, NOS

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	3/45.02	0/42.82	2/43.19
POLY-3 PERCENT (g)	0%	6.7%	0%	4.6%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	2/31 (7%)
FIRST INCIDENCE	---	701	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.392	P=0.128	(e)	P=0.224
POLY 3	P=0.400	P=0.116	(e)	P=0.225
POLY 1.5	P=0.406	P=0.117	(e)	P=0.229
POLY 6	P=0.396	P=0.116	(e)	P=0.222
LOGISTIC REGRESSION	P=0.398	P=0.117	(e)	P=0.224
COCH-ARM / FISHERS	P=0.419	P=0.121	(e)	P=0.247
ORDER RESTRICTED	P=0.144	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.160	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.58	3/45.02	0/42.82	2/43.19
POLY-3 PERCENT (g)	0%	6.7%	0%	4.6%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	0/33 (0%)	2/31 (7%)
FIRST INCIDENCE	---	701	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.392	P=0.128	(e)	P=0.224
POLY 3	P=0.400	P=0.116	(e)	P=0.225
POLY 1.5	P=0.406	P=0.117	(e)	P=0.229
POLY 6	P=0.396	P=0.116	(e)	P=0.222
LOGISTIC REGRESSION	P=0.398	P=0.117	(e)	P=0.224
COCH-ARM / FISHERS	P=0.419	P=0.121	(e)	P=0.247
ORDER RESTRICTED	P=0.144	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.160	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**All Organs
 Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	48/50 (96%)	48/50 (96%)
POLY-3 RATE (b)	50/50	50/50	48/48	48/48.23
POLY-3 PERCENT (g)	100%	100%	100%	99.5%
TERMINAL (d)	33/33 (100%)	34/34 (100%)	33/33 (100%)	31/31 (100%)
FIRST INCIDENCE	449	253	534	422

STATISTICAL TESTS

LIFE TABLE	P=0.419	(e)	P=0.525N	P=0.485
POLY 3	P=0.996N	(e)	P=1.000N	P=1.000N
POLY 1.5	P=0.303N	(e)	P=1.000N	P=0.753N
POLY 6	P=1.000N	(e)	P=1.000N	P=1.000N
LOGISTIC REGRESSION	P=0.087N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.122N	(e)	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.041N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.051N	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**All Organs
 Malignant Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	23/50 (46%)	29/50 (58%)	23/50 (46%)	24/50 (48%)
POLY-3 RATE (b)	23/48.69	29/48.65	23/46.86	24/47.97
POLY-3 PERCENT (g)	47.2%	59.6%	49.1%	50%
TERMINAL (d)	10/33 (30%)	15/34 (44%)	11/33 (33%)	11/31 (36%)
FIRST INCIDENCE	548	528	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.518	P=0.221	P=0.492	P=0.404
POLY 3	P=0.446N	P=0.153	P=0.510	P=0.471
POLY 1.5	P=0.430N	P=0.150	P=0.510	P=0.483
POLY 6	P=0.469N	P=0.161	P=0.510	P=0.457
LOGISTIC REGRESSION	P=0.390N	P=0.170	P=0.568N	P=0.555N
COCH-ARM / FISHERS	P=0.417N	P=0.158	P=0.579N	P=0.500
ORDER RESTRICTED	P=0.451	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.460	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 7:46:26
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

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

DOSE	Males			
	0 PPM	1500 PPM	5000 PPM	15000 PPM

**All Organs
 Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	50/50	50/50	48/48	50/50
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	33/33 (100%)	34/34 (100%)	33/33 (100%)	31/31 (100%)
FIRST INCIDENCE	449	253	534	299

STATISTICAL TESTS

LIFE TABLE	P=0.272	(e)	P=0.525N	(e)
POLY 3	P=1.000	(e)	P=1.000N	(e)
POLY 1.5	P=1.000	(e)	P=1.000N	(e)
POLY 6	P=1.000	(e)	P=1.000N	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.697	(e)	P=0.247N	(e)
ORDER RESTRICTED	P=0.364N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.371N	(e)	(e)	(e)

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

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
CRESOLS
CAS Number: 1319-77-3
Pathologist: BOYCE, J. - RYAN, M. - JOKINEN, M.

Date Report Requested: 04/10/2006
Time Report Requested: 7:46:26
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 ***