

**TDMS No.** 20114 - 07  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium dichromate dihydrate (VI)

**CAS Number:** 7789-12-0

**Date Report Requested:** 10/04/2007

**Time Report Requested:** 10:38:19

**First Dose M/F:** 10/02/02 / 10/02/02

**Lab:** SRI

F2\_R2

<b>C Number:</b>	C20114		
<b>Lock Date:</b>	10/04/2005		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25021 TSAC	25020 NATD	25019 MSAC
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>TDMSE Version:</b>	1.8.0		

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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  
Heart  
Islets, Pancreatic  
Larynx  
Liver  
Lung  
Ovary  
Pancreas  
Parathyroid Gland  
Pituitary Gland  
Prostate  
Spleen  
Testes  
Thymus  
Thyroid Gland  
Urinary Bladder

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF Sodium dichromate dihydrate (VI)

### MALE RATS

<u>Organ</u>	<u>Morphology</u>
Adrenal Medulla	Pheochromocytoma Benign Pheochromocytoma: Benign, Complex, Malignant, NOS Carcinoma Papilloma Squamous or Papilloma
Clitoral/Preputial Gland	Squamous Cell Carcinoma
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)	Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma Squamous Cell Carcinoma Adenoma Adenoma Carcinoma or Adenoma Sarcoma Adenoma Carcinoma Carcinoma or Adenoma Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
Oral Mucosa	
Pancreas	
Pituitary Gland: Pars Distalis or Unspecified Site	
Skin	
Testes	
Thyroid Gland: Follicular Cell	
All Organs	

### FEMALE RATS

<u>Organ</u>	<u>Morphology</u>
Clitoral/Preputial Gland	Adenoma Carcinoma or Adenoma Carcinoma or Adenoma Fibroadenoma Fibroma, Fibroadenoma or Adenoma Fibroma, Fibroadenoma, Carcinoma, or Adenoma Squamous Cell Carcinoma
Mammary Gland	Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma Squamous Cell Carcinoma Adenoma Carcinoma or Adenoma
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)	
Oral Mucosa	
Pituitary Gland: Pars Distalis or Unspecified Site	

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF Sodium dichromate dihydrate (VI)**

All Organs

Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated  
Benign Tumors  
Malignant Tumors

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	6/49 (12%)	13/50 (26%)	14/49 (29%)	5/50 (10%)	4/49 (8%)
POLY-3 RATE (b)	6/44.15	13/41.83	14/41.78	5/44.56	4/43
POLY-3 PERCENT (g)	13.6%	31.1%	33.5%	11.2%	9.3%
TERMINAL (d)	3/28 (11%)	10/30 (33%)	9/30 (30%)	4/36 (11%)	4/29 (14%)
FIRST INCIDENCE	639	687	636	595	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.021N*	P=0.079	P=0.044*	P=0.391N	P=0.372N
POLY 3	P=0.018N*	P=0.042*	P=0.024*	P=0.493N	P=0.386N
POLY 1.5	P=0.018N*	P=0.049*	P=0.028*	P=0.492N	P=0.377N
POLY 6	P=0.019N*	P=0.038*	P=0.022*	P=0.490N	P=0.402N
LOGISTIC REGRESSION	P=0.018N*	P=0.044*	P=0.025*	P=0.490N	P=0.388N
COCH-ARM / FISHERS	P=0.022N*	P=0.068	P=0.039*	P=0.486N	P=0.370N
ORDER RESTRICTED	P=0.032N*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031N*	(e)	(e)	(e)	(e)

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma Malignant**

**TUMOR RATES**

OVERALL (a)	1/49 (2%)	0/50 (0%)	2/49 (4%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	1/43.6	0/41.51	2/40.66	3/44.14	1/43
POLY-3 PERCENT (g)	2.3%	0%	4.9%	6.8%	2.3%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	2/30 (7%)	2/36 (6%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	721	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.573	P=0.486N	P=0.524	P=0.395	P=0.754N
POLY 3	P=0.585	P=0.510N	P=0.476	P=0.309	P=0.758
POLY 1.5	P=0.583	P=0.506N	P=0.483	P=0.310	P=0.759
POLY 6	P=0.580	P=0.512N	P=0.469	P=0.313	P=0.754
LOGISTIC REGRESSION	P=0.569	(e)	P=0.524	P=0.352	P=0.754N
COCH-ARM / FISHERS	P=0.568	P=0.495N	P=0.500	P=0.316	P=0.753N
ORDER RESTRICTED	P=0.307	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.315	(e)	(e)	(e)	(e)

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

**TUMOR RATES**

OVERALL (a)	7/49 (14%)	13/50 (26%)	15/49 (31%)	7/50 (14%)	5/49 (10%)
POLY-3 RATE (b)	7/44.15	13/41.83	15/41.78	7/44.59	5/43
POLY-3 PERCENT (g)	15.9%	31.1%	35.9%	15.7%	11.6%
TERMINAL (d)	4/28 (14%)	10/30 (33%)	10/30 (33%)	5/36 (14%)	5/29 (17%)
FIRST INCIDENCE	639	687	636	595	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.035N*	P=0.128	P=0.051	P=0.473N	P=0.377N
POLY 3	P=0.030N*	P=0.076	P=0.027*	P=0.606N	P=0.397N
POLY 1.5	P=0.031N*	P=0.087	P=0.031*	P=0.604N	P=0.387N
POLY 6	P=0.033N*	P=0.069	P=0.024*	P=0.602N	P=0.415N
LOGISTIC REGRESSION	P=0.030N*	P=0.076	P=0.027*	P=0.604N	P=0.404N
COCH-ARM / FISHERS	P=0.036N*	P=0.115	P=0.044*	P=0.597N	P=0.380N
ORDER RESTRICTED	P=0.050N*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.053N	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	3/49 (6%)	2/50 (4%)	3/49 (6%)
POLY-3 RATE (b)	4/44.51	3/41.96	3/41.16	2/44.1	3/43
POLY-3 PERCENT (g)	9%	7.2%	7.3%	4.5%	7%
TERMINAL (d)	3/28 (11%)	1/30 (3%)	1/30 (3%)	2/36 (6%)	3/29 (10%)
FIRST INCIDENCE	677	652	652	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.501N	P=0.502N	P=0.530N	P=0.250N	P=0.494N
POLY 3	P=0.495N	P=0.532N	P=0.543N	P=0.341N	P=0.519N
POLY 1.5	P=0.496N	P=0.524N	P=0.534N	P=0.341N	P=0.514N
POLY 6	P=0.501N	P=0.533N	P=0.548N	P=0.336N	P=0.528N
LOGISTIC REGRESSION	P=0.492N	P=0.532N	P=0.542N	P=0.321N	P=0.528N
COCH-ARM / FISHERS	P=0.509N	P=0.500N	P=0.511N	P=0.339N	P=0.511N
ORDER RESTRICTED	P=0.478N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.484N	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	4/50 (8%)	7/49 (14%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	1/44.31	4/42.13	7/41.18	3/44.1	2/43
POLY-3 PERCENT (g)	2.3%	9.5%	17%	6.8%	4.7%
TERMINAL (d)	1/28 (4%)	2/30 (7%)	5/30 (17%)	3/36 (8%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	595	652	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.292N	P=0.188	P=0.034*	P=0.398	P=0.512
POLY 3	P=0.300N	P=0.163	P=0.022*	P=0.303	P=0.489
POLY 1.5	P=0.299N	P=0.167	P=0.024*	P=0.303	P=0.492
POLY 6	P=0.307N	P=0.164	P=0.021*	P=0.308	P=0.485
LOGISTIC REGRESSION	P=0.291N	P=0.168	P=0.023*	P=0.398	P=0.512
COCH-ARM / FISHERS	P=0.306N	P=0.181	P=0.028*	P=0.309	P=0.492
ORDER RESTRICTED	P=0.175	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.189	(e)	(e)	(e)	(e)

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DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	6/50 (12%)	8/49 (16%)	5/50 (10%)	5/49 (10%)
POLY-3 RATE (b)	4/44.51	6/42.42	8/41.39	5/44.1	5/43
POLY-3 PERCENT (g)	9%	14.2%	19.3%	11.3%	11.6%
TERMINAL (d)	3/28 (11%)	3/30 (10%)	5/30 (17%)	5/36 (14%)	5/29 (17%)
FIRST INCIDENCE	677	595	652	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.456N	P=0.374	P=0.171	P=0.635	P=0.511
POLY 3	P=0.464N	P=0.339	P=0.141	P=0.494	P=0.478
POLY 1.5	P=0.461N	P=0.345	P=0.149	P=0.495	P=0.484
POLY 6	P=0.478N	P=0.342	P=0.138	P=0.500	P=0.468
LOGISTIC REGRESSION	P=0.449N	P=0.340	P=0.135	P=0.537	P=0.470
COCH-ARM / FISHERS	P=0.472N	P=0.370	P=0.168	P=0.500	P=0.487
ORDER RESTRICTED	P=0.416	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.425	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	7/50 (14%)	3/49 (6%)	7/50 (14%)	5/49 (10%)
POLY-3 RATE (b)	4/44.74	7/41.84	3/40.66	7/44.25	5/43.78
POLY-3 PERCENT (g)	8.9%	16.7%	7.4%	15.8%	11.4%
TERMINAL (d)	2/28 (7%)	5/30 (17%)	3/30 (10%)	6/36 (17%)	3/29 (10%)
FIRST INCIDENCE	666	687	729 (T)	692	595

**STATISTICAL TESTS**

LIFE TABLE	P=0.533	P=0.275	P=0.507N	P=0.376	P=0.492
POLY 3	P=0.550	P=0.222	P=0.552N	P=0.254	P=0.486
POLY 1.5	P=0.542	P=0.233	P=0.538N	P=0.256	P=0.488
POLY 6	P=0.551	P=0.217	P=0.566N	P=0.257	P=0.482
LOGISTIC REGRESSION	P=0.538	P=0.222	P=0.554N	P=0.264	P=0.488
COCH-ARM / FISHERS	P=0.516	P=0.262	P=0.511N	P=0.262	P=0.487
ORDER RESTRICTED	P=0.428	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.434	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Islets, Pancreatic  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	7/50 (14%)	4/49 (8%)	7/50 (14%)	5/49 (10%)
POLY-3 RATE (b)	4/44.74	7/41.84	4/41	7/44.25	5/43.78
POLY-3 PERCENT (g)	8.9%	16.7%	9.8%	15.8%	11.4%
TERMINAL (d)	2/28 (7%)	5/30 (17%)	3/30 (10%)	6/36 (17%)	3/29 (10%)
FIRST INCIDENCE	666	687	636	692	595

**STATISTICAL TESTS**

LIFE TABLE	P=0.572	P=0.275	P=0.624	P=0.376	P=0.492
POLY 3	P=0.562N	P=0.222	P=0.595	P=0.254	P=0.486
POLY 1.5	P=0.568N	P=0.233	P=0.606	P=0.256	P=0.488
POLY 6	P=0.563N	P=0.217	P=0.585	P=0.257	P=0.482
LOGISTIC REGRESSION	P=0.567N	P=0.222	P=0.600	P=0.264	P=0.488
COCH-ARM / FISHERS	P=0.556	P=0.262	P=0.631	P=0.262	P=0.487
ORDER RESTRICTED	P=0.434	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.441	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

Liver  
 Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/49 (4%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/44.31	1/41.51	2/40.66	0/44.1	1/43
POLY-3 PERCENT (g)	0%	2.4%	4.9%	0%	2.3%
TERMINAL (d)	0/28 (0%)	1/30 (3%)	2/30 (7%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.644	P=0.514	P=0.253	(e)	P=0.507
POLY 3	P=0.635	P=0.487	P=0.218	(e)	P=0.494
POLY 1.5	P=0.636	P=0.490	P=0.223	(e)	P=0.495
POLY 6	P=0.632	P=0.486	P=0.215	(e)	P=0.492
LOGISTIC REGRESSION	(e)	P=0.514	P=0.253	(e)	P=0.507
COCH-ARM / FISHERS	P=0.635	P=0.500	P=0.242	(e)	P=0.495
ORDER RESTRICTED	P=0.356	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.367	(e)	(e)	(e)	(e)

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 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Lung  
 Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/49 (4%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	4/44.51	3/41.51	2/40.66	1/44.1	1/43
POLY-3 PERCENT (g)	9%	7.2%	4.9%	2.3%	2.3%
TERMINAL (d)	3/28 (11%)	3/30 (10%)	2/30 (7%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.139N	P=0.478N	P=0.329N	P=0.128N	P=0.180N
POLY 3	P=0.140N	P=0.538N	P=0.379N	P=0.181N	P=0.189N
POLY 1.5	P=0.143N	P=0.527N	P=0.369N	P=0.181N	P=0.187N
POLY 6	P=0.140N	P=0.544N	P=0.389N	P=0.178N	P=0.193N
LOGISTIC REGRESSION	P=0.143N	P=0.530N	P=0.383N	P=0.171N	P=0.193N
COCH-ARM / FISHERS	P=0.150N	P=0.500N	P=0.349N	P=0.181N	P=0.187N
ORDER RESTRICTED	P=0.124N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.138N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	3/49 (6%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	4/44.51	3/41.51	3/40.66	1/44.1	2/43
POLY-3 PERCENT (g)	9%	7.2%	7.4%	2.3%	4.7%
TERMINAL (d)	3/28 (11%)	3/30 (10%)	3/30 (10%)	1/36 (3%)	2/29 (7%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.276N	P=0.478N	P=0.487N	P=0.128N	P=0.333N
POLY 3	P=0.277N	P=0.538N	P=0.549N	P=0.181N	P=0.353N
POLY 1.5	P=0.280N	P=0.527N	P=0.537N	P=0.181N	P=0.349N
POLY 6	P=0.278N	P=0.544N	P=0.560N	P=0.178N	P=0.360N
LOGISTIC REGRESSION	P=0.282N	P=0.530N	P=0.553N	P=0.171N	P=0.359N
COCH-ARM / FISHERS	P=0.291N	P=0.500N	P=0.511N	P=0.181N	P=0.349N
ORDER RESTRICTED	P=0.234N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.247N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	0/44.1	0/43
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
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 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/44.31	0/41.51	0/40.66	0/44.1	1/43.23
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	2.3%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	667

**STATISTICAL TESTS**

LIFE TABLE	P=0.442	P=0.486N	P=0.486N	P=0.450N	P=0.756
POLY 3	P=0.454	P=0.513N	P=0.517N	P=0.501N	P=0.755
POLY 1.5	P=0.450	P=0.510N	P=0.513N	P=0.501N	P=0.756
POLY 6	P=0.455	P=0.514N	P=0.520N	P=0.498N	P=0.754
LOGISTIC REGRESSION	P=0.442	(e)	(e)	(e)	P=0.758
COCH-ARM / FISHERS	P=0.438	P=0.500N	P=0.505N	P=0.500N	P=0.747
ORDER RESTRICTED	P=0.345	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.354	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
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 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Carcinoma or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/44.31	0/41.51	0/40.66	0/44.1	1/43.23
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	2.3%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	667

**STATISTICAL TESTS**

LIFE TABLE	P=0.442	P=0.486N	P=0.486N	P=0.450N	P=0.756
POLY 3	P=0.454	P=0.513N	P=0.517N	P=0.501N	P=0.755
POLY 1.5	P=0.450	P=0.510N	P=0.513N	P=0.501N	P=0.756
POLY 6	P=0.455	P=0.514N	P=0.520N	P=0.498N	P=0.754
LOGISTIC REGRESSION	P=0.442	(e)	(e)	(e)	P=0.758
COCH-ARM / FISHERS	P=0.438	P=0.500N	P=0.505N	P=0.500N	P=0.747
ORDER RESTRICTED	P=0.345	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.354	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
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 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroadenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	7/49 (14%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	2/44.47	2/42.06	7/40.94	3/44.1	1/43
POLY-3 PERCENT (g)	4.5%	4.8%	17.1%	6.8%	2.3%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	6/30 (20%)	3/36 (8%)	1/29 (3%)
FIRST INCIDENCE	689	559	652	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.178N	P=0.692N	P=0.085	P=0.598	P=0.498N
POLY 3	P=0.182N	P=0.674	P=0.059	P=0.496	P=0.512N
POLY 1.5	P=0.182N	P=0.679	P=0.064	P=0.496	P=0.509N
POLY 6	P=0.188N	P=0.674	P=0.056	P=0.501	P=0.517N
LOGISTIC REGRESSION	P=0.180N	P=0.690N	P=0.057	P=0.517	P=0.516N
COCH-ARM / FISHERS	P=0.190N	P=0.691N	P=0.075	P=0.500	P=0.508N
ORDER RESTRICTED	P=0.202N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroma, Fibroadenoma or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	7/49 (14%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	2/44.47	2/42.06	7/40.94	3/44.1	1/43
POLY-3 PERCENT (g)	4.5%	4.8%	17.1%	6.8%	2.3%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	6/30 (20%)	3/36 (8%)	1/29 (3%)
FIRST INCIDENCE	689	559	652	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.178N	P=0.692N	P=0.085	P=0.598	P=0.498N
POLY 3	P=0.182N	P=0.674	P=0.059	P=0.496	P=0.512N
POLY 1.5	P=0.182N	P=0.679	P=0.064	P=0.496	P=0.509N
POLY 6	P=0.188N	P=0.674	P=0.056	P=0.501	P=0.517N
LOGISTIC REGRESSION	P=0.180N	P=0.690N	P=0.057	P=0.517	P=0.516N
COCH-ARM / FISHERS	P=0.190N	P=0.691N	P=0.075	P=0.500	P=0.508N
ORDER RESTRICTED	P=0.202N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroma, Fibroadenoma, Carcinoma, or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	7/49 (14%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	3/44.47	2/42.06	7/40.94	3/44.1	2/43.23
POLY-3 PERCENT (g)	6.8%	4.8%	17.1%	6.8%	4.6%
TERMINAL (d)	2/28 (7%)	1/30 (3%)	6/30 (20%)	3/36 (8%)	1/29 (3%)
FIRST INCIDENCE	689	559	652	729 (T)	667

**STATISTICAL TESTS**

LIFE TABLE	P=0.279N	P=0.493N	P=0.167	P=0.556N	P=0.503N
POLY 3	P=0.279N	P=0.525N	P=0.124	P=0.659	P=0.513N
POLY 1.5	P=0.280N	P=0.519N	P=0.132	P=0.659	P=0.510N
POLY 6	P=0.283N	P=0.526N	P=0.118	P=0.662N	P=0.518N
LOGISTIC REGRESSION	P=0.278N	P=0.506N	P=0.117	P=0.642N	P=0.516N
COCH-ARM / FISHERS	P=0.293N	P=0.500N	P=0.151	P=0.661N	P=0.510N
ORDER RESTRICTED	P=0.346N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.356N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

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 Sodium dichromate dihydrate (VI)  
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 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Papilloma Squamous or Papilloma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	0/44.1	2/43.41
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.6%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	652

**STATISTICAL TESTS**

LIFE TABLE	P=0.020*	(e)	(e)	(e)	P=0.223
POLY 3	P=0.019*	(e)	(e)	(e)	P=0.232
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.233
POLY 6	P=0.019*	(e)	(e)	(e)	P=0.231
LOGISTIC REGRESSION	P=0.018*	(e)	(e)	(e)	P=0.231
COCH-ARM / FISHERS	P=0.019*	(e)	(e)	(e)	P=0.242
ORDER RESTRICTED	P=0.015*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.020*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/50 (0%)	6/49 (12%)
POLY-3 RATE (b)	0/44.31	1/41.51	0/40.66	0/44.1	6/44.26
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	13.6%
TERMINAL (d)	0/28 (0%)	1/30 (3%)	0/30 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	729 (T)	---	---	543

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.514	(e)	(e)	P=0.019*
POLY 3	P<0.001**	P=0.487	(e)	(e)	P=0.015*
POLY 1.5	P<0.001**	P=0.490	(e)	(e)	P=0.015*
POLY 6	P<0.001**	P=0.486	(e)	(e)	P=0.015*
LOGISTIC REGRESSION	P<0.001**	P=0.514	(e)	(e)	P=0.015*
COCH-ARM / FISHERS	P<0.001**	P=0.500	(e)	(e)	P=0.012*
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/50 (0%)	7/49 (14%)
POLY-3 RATE (b)	0/44.31	1/41.51	0/40.66	0/44.1	7/44.54
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	15.7%
TERMINAL (d)	0/28 (0%)	1/30 (3%)	0/30 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	729 (T)	---	---	543

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.514	(e)	(e)	P=0.010**
POLY 3	P<0.001**	P=0.487	(e)	(e)	P=0.007**
POLY 1.5	P<0.001**	P=0.490	(e)	(e)	P=0.007**
POLY 6	P<0.001**	P=0.486	(e)	(e)	P=0.008**
LOGISTIC REGRESSION	P<0.001**	P=0.514	(e)	(e)	P=0.008**
COCH-ARM / FISHERS	P<0.001**	P=0.500	(e)	(e)	P=0.006**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
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 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Mucosa  
 Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	6/49 (12%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	0/44.1	6/44.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	13.6%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	---	543

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	(e)	(e)	(e)	P=0.019*
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.015*
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.015*
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.015*
LOGISTIC REGRESSION	P<0.001**	(e)	(e)	(e)	P=0.015*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.012*
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Pancreas  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	6/49 (12%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	1/44.31	2/41.6	6/41.21	2/44.1	2/43
POLY-3 PERCENT (g)	2.3%	4.8%	14.6%	4.5%	4.7%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	5/30 (17%)	2/36 (6%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	706	560	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.462N	P=0.520	P=0.066	P=0.588	P=0.512
POLY 3	P=0.468N	P=0.478	P=0.044*	P=0.498	P=0.489
POLY 1.5	P=0.468N	P=0.484	P=0.047*	P=0.498	P=0.492
POLY 6	P=0.474N	P=0.477	P=0.042*	P=0.503	P=0.485
LOGISTIC REGRESSION	P=0.462N	P=0.480	P=0.045*	P=0.588	P=0.512
COCH-ARM / FISHERS	P=0.476N	P=0.500	P=0.053	P=0.500	P=0.492
ORDER RESTRICTED	P=0.231	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.244	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	16/50 (32%)	19/50 (38%)	20/49 (41%)	10/50 (20%)	16/49 (33%)
POLY-3 RATE (b)	16/45.17	19/42.75	20/43.4	10/44.1	16/45.4
POLY-3 PERCENT (g)	35.4%	44.4%	46.1%	22.7%	35.2%
TERMINAL (d)	9/28 (32%)	16/30 (53%)	13/30 (43%)	10/36 (28%)	9/29 (31%)
FIRST INCIDENCE	639	477	503	729 (T)	557

**STATISTICAL TESTS**

LIFE TABLE	P=0.296N	P=0.391	P=0.294	P=0.043N*	P=0.574
POLY 3	P=0.251N	P=0.256	P=0.207	P=0.135N	P=0.580N
POLY 1.5	P=0.272N	P=0.279	P=0.213	P=0.132N	P=0.580
POLY 6	P=0.233N	P=0.240	P=0.209	P=0.134N	P=0.568N
LOGISTIC REGRESSION	P=0.281N	P=0.241	P=0.183	P=0.104N	P=0.553
COCH-ARM / FISHERS	P=0.322N	P=0.338	P=0.241	P=0.127N	P=0.558
ORDER RESTRICTED	P=0.157N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

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DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	0/44.1	0/43
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

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TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	16/50 (32%)	19/50 (38%)	20/49 (41%)	10/50 (20%)	16/49 (33%)
POLY-3 RATE (b)	16/45.17	19/42.75	20/43.4	10/44.1	16/45.4
POLY-3 PERCENT (g)	35.4%	44.4%	46.1%	22.7%	35.2%
TERMINAL (d)	9/28 (32%)	16/30 (53%)	13/30 (43%)	10/36 (28%)	9/29 (31%)
FIRST INCIDENCE	639	477	503	729 (T)	557

**STATISTICAL TESTS**

LIFE TABLE	P=0.296N	P=0.391	P=0.294	P=0.043N*	P=0.574
POLY 3	P=0.251N	P=0.256	P=0.207	P=0.135N	P=0.580N
POLY 1.5	P=0.272N	P=0.279	P=0.213	P=0.132N	P=0.580
POLY 6	P=0.233N	P=0.240	P=0.209	P=0.134N	P=0.568N
LOGISTIC REGRESSION	P=0.281N	P=0.241	P=0.183	P=0.104N	P=0.553
COCH-ARM / FISHERS	P=0.322N	P=0.338	P=0.241	P=0.127N	P=0.558
ORDER RESTRICTED	P=0.157N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Prostate  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	2/49 (4%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	2/44.37	0/41.51	2/40.66	0/44.1	1/43.28
POLY-3 PERCENT (g)	4.5%	0%	4.9%	0%	2.3%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	2/30 (7%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	716	---	729 (T)	---	652

**STATISTICAL TESTS**

LIFE TABLE	P=0.544N	P=0.236N	P=0.678N	P=0.194N	P=0.518N
POLY 3	P=0.531N	P=0.252N	P=0.662	P=0.238N	P=0.509N
POLY 1.5	P=0.534N	P=0.248N	P=0.670	P=0.239N	P=0.507N
POLY 6	P=0.530N	P=0.254N	P=0.656	P=0.235N	P=0.511N
LOGISTIC REGRESSION	P=0.536N	P=0.248N	P=0.673	P=0.224N	P=0.508N
COCH-ARM / FISHERS	P=0.546N	P=0.247N	P=0.684	P=0.247N	P=0.508N
ORDER RESTRICTED	P=0.251N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Basal Cell Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/49 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/44.31	3/41.58	0/40.66	1/44.1	1/43
POLY-3 PERCENT (g)	4.5%	7.2%	0%	2.3%	2.3%
TERMINAL (d)	2/28 (7%)	2/30 (7%)	0/30 (0%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	713	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.373N	P=0.525	P=0.223N	P=0.412N	P=0.488N
POLY 3	P=0.370N	P=0.471	P=0.257N	P=0.502N	P=0.511N
POLY 1.5	P=0.372N	P=0.479	P=0.252N	P=0.502N	P=0.508N
POLY 6	P=0.369N	P=0.469	P=0.260N	P=0.497N	P=0.515N
LOGISTIC REGRESSION	P=0.374N	P=0.489	(e)	P=0.412N	P=0.488N
COCH-ARM / FISHERS	P=0.379N	P=0.500	P=0.253N	P=0.500N	P=0.508N
ORDER RESTRICTED	P=0.221N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.233N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

---

	Males				
DOSE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

---

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

---

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/49 (2%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/44.31	3/41.58	1/40.66	1/44.1	1/43
POLY-3 PERCENT (g)	4.5%	7.2%	2.5%	2.3%	2.3%
TERMINAL (d)	2/28 (7%)	2/30 (7%)	1/30 (3%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	713	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

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LIFE TABLE	P=0.313N	P=0.525	P=0.476N	P=0.412N	P=0.488N
POLY 3	P=0.314N	P=0.471	P=0.530N	P=0.502N	P=0.511N
POLY 1.5	P=0.315N	P=0.479	P=0.523N	P=0.502N	P=0.508N
POLY 6	P=0.314N	P=0.469	P=0.536N	P=0.497N	P=0.515N
LOGISTIC REGRESSION	P=0.315N	P=0.489	P=0.476N	P=0.412N	P=0.488N
COCH-ARM / FISHERS	P=0.321N	P=0.500	P=0.508N	P=0.500N	P=0.508N
ORDER RESTRICTED	P=0.331N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.342N	(e)	(e)	(e)	(e)

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TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Basal Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/49 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.31	2/42.41	2/40.66	0/44.1	0/43
POLY-3 PERCENT (g)	0%	4.7%	4.9%	0%	0%
TERMINAL (d)	0/28 (0%)	1/30 (3%)	2/30 (7%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	---	345	729 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.216N	P=0.243	P=0.253	(e)	(e)
POLY 3	P=0.227N	P=0.227	P=0.218	(e)	(e)
POLY 1.5	P=0.225N	P=0.230	P=0.223	(e)	(e)
POLY 6	P=0.228N	P=0.227	P=0.215	(e)	(e)
LOGISTIC REGRESSION	P=0.248N	P=0.382	P=0.253	(e)	(e)
COCH-ARM / FISHERS	P=0.224N	P=0.247	P=0.242	(e)	(e)
ORDER RESTRICTED	P=0.232N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.245N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	5/50 (10%)	3/49 (6%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/44.31	5/42.47	3/40.66	1/44.1	1/43
POLY-3 PERCENT (g)	4.5%	11.8%	7.4%	2.3%	2.3%
TERMINAL (d)	2/28 (7%)	3/30 (10%)	3/30 (10%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	345	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.128N	P=0.237	P=0.532	P=0.412N	P=0.488N
POLY 3	P=0.133N	P=0.198	P=0.461	P=0.502N	P=0.511N
POLY 1.5	P=0.134N	P=0.203	P=0.470	P=0.502N	P=0.508N
POLY 6	P=0.134N	P=0.197	P=0.453	P=0.497N	P=0.515N
LOGISTIC REGRESSION	P=0.132N	P=0.228	P=0.532	P=0.412N	P=0.488N
COCH-ARM / FISHERS	P=0.137N	P=0.218	P=0.490	P=0.500N	P=0.508N
ORDER RESTRICTED	P=0.199N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.211N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**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)	5/50 (10%)	8/50 (16%)	4/49 (8%)	6/50 (12%)	3/49 (6%)
POLY-3 RATE (b)	5/44.99	8/42.87	4/41.33	6/44.68	3/43
POLY-3 PERCENT (g)	11.1%	18.7%	9.7%	13.4%	7%
TERMINAL (d)	2/28 (7%)	4/30 (13%)	3/30 (10%)	5/36 (14%)	3/29 (10%)
FIRST INCIDENCE	587	345	503	549	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.176N	P=0.287	P=0.500N	P=0.615	P=0.354N
POLY 3	P=0.180N	P=0.243	P=0.553N	P=0.495	P=0.381N
POLY 1.5	P=0.179N	P=0.253	P=0.540N	P=0.495	P=0.374N
POLY 6	P=0.187N	P=0.240	P=0.566N	P=0.501	P=0.394N
LOGISTIC REGRESSION	P=0.183N	P=0.291	P=0.510N	P=0.499	P=0.372N
COCH-ARM / FISHERS	P=0.185N	P=0.277	P=0.513N	P=0.500	P=0.369N
ORDER RESTRICTED	P=0.217N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.232N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Fibroma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	12/50 (24%)	13/49 (27%)	9/50 (18%)	8/49 (16%)
POLY-3 RATE (b)	8/44.93	12/42.8	13/41.52	9/44.56	8/44.27
POLY-3 PERCENT (g)	17.8%	28%	31.3%	20.2%	18.1%
TERMINAL (d)	5/28 (18%)	8/30 (27%)	10/30 (33%)	8/36 (22%)	3/29 (10%)
FIRST INCIDENCE	652	584	617	595	609

**STATISTICAL TESTS**

LIFE TABLE	P=0.246N	P=0.241	P=0.167	P=0.545N	P=0.585
POLY 3	P=0.225N	P=0.186	P=0.110	P=0.493	P=0.596
POLY 1.5	P=0.234N	P=0.195	P=0.122	P=0.493	P=0.594
POLY 6	P=0.223N	P=0.187	P=0.102	P=0.499	P=0.596
LOGISTIC REGRESSION	P=0.233N	P=0.185	P=0.105	P=0.500	P=0.590
COCH-ARM / FISHERS	P=0.260N	P=0.227	P=0.150	P=0.500	P=0.590
ORDER RESTRICTED	P=0.341N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.348N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	11/50 (22%)	13/50 (26%)	14/49 (29%)	9/50 (18%)	9/49 (18%)
POLY-3 RATE (b)	11/45.11	13/43.19	14/42.06	9/44.56	9/44.27
POLY-3 PERCENT (g)	24.4%	30.1%	33.3%	20.2%	20.3%
TERMINAL (d)	6/28 (21%)	8/30 (27%)	10/30 (33%)	8/36 (22%)	4/29 (14%)
FIRST INCIDENCE	652	584	560	595	609

**STATISTICAL TESTS**

LIFE TABLE	P=0.185N	P=0.415	P=0.323	P=0.246N	P=0.426N
POLY 3	P=0.165N	P=0.358	P=0.247	P=0.412N	P=0.418N
POLY 1.5	P=0.170N	P=0.367	P=0.262	P=0.410N	P=0.418N
POLY 6	P=0.166N	P=0.363	P=0.236	P=0.408N	P=0.422N
LOGISTIC REGRESSION	P=0.170N	P=0.351	P=0.238	P=0.401N	P=0.425N
COCH-ARM / FISHERS	P=0.192N	P=0.408	P=0.301	P=0.402N	P=0.421N
ORDER RESTRICTED	P=0.283N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.292N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/49 (2%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	3/44.5	1/41.91	1/41.21	1/44.1	1/43
POLY-3 PERCENT (g)	6.7%	2.4%	2.4%	2.3%	2.3%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	0/30 (0%)	1/36 (3%)	1/29 (3%)
FIRST INCIDENCE	696	617	560	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.396N	P=0.321N	P=0.322N	P=0.243N	P=0.313N
POLY 3	P=0.387N	P=0.327N	P=0.333N	P=0.308N	P=0.317N
POLY 1.5	P=0.390N	P=0.322N	P=0.327N	P=0.308N	P=0.315N
POLY 6	P=0.389N	P=0.328N	P=0.337N	P=0.305N	P=0.323N
LOGISTIC REGRESSION	P=0.403N	P=0.311N	P=0.299N	P=0.298N	P=0.321N
COCH-ARM / FISHERS	P=0.402N	P=0.309N	P=0.316N	P=0.309N	P=0.316N
ORDER RESTRICTED	P=0.202N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.215N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Keratoacanthoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/49 (2%)	4/50 (8%)	1/49 (2%)
POLY-3 RATE (b)	2/44.79	3/41.91	1/41.33	4/44.68	1/43
POLY-3 PERCENT (g)	4.5%	7.2%	2.4%	9%	2.3%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	0/30 (0%)	3/36 (8%)	1/29 (3%)
FIRST INCIDENCE	587	636	503	549	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.371N	P=0.489	P=0.510N	P=0.412	P=0.492N
POLY 3	P=0.375N	P=0.470	P=0.528N	P=0.336	P=0.514N
POLY 1.5	P=0.375N	P=0.478	P=0.522N	P=0.335	P=0.510N
POLY 6	P=0.382N	P=0.468	P=0.533N	P=0.341	P=0.521N
LOGISTIC REGRESSION	P=0.401N	P=0.506	P=0.396N	P=0.346	P=0.508N
COCH-ARM / FISHERS	P=0.384N	P=0.500	P=0.508N	P=0.339	P=0.508N
ORDER RESTRICTED	P=0.398N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.409N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Sarcoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/44.5	0/41.51	0/40.66	0/44.1	0/43
POLY-3 PERCENT (g)	4.5%	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	696	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.313N	P=0.250N	P=0.257N	P=0.212N	P=0.254N
POLY 3	P=0.296N	P=0.253N	P=0.258N	P=0.239N	P=0.245N
POLY 1.5	P=0.301N	P=0.248N	P=0.253N	P=0.239N	P=0.243N
POLY 6	P=0.292N	P=0.255N	P=0.262N	P=0.237N	P=0.248N
LOGISTIC REGRESSION	P=0.311N	P=0.250N	P=0.256N	P=0.238N	P=0.244N
COCH-ARM / FISHERS	P=0.315N	P=0.247N	P=0.253N	P=0.247N	P=0.253N
ORDER RESTRICTED	P=0.018N*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.024N*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/49 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/44.51	2/42.41	2/40.66	0/44.1	0/43
POLY-3 PERCENT (g)	2.3%	4.7%	4.9%	0%	0%
TERMINAL (d)	0/28 (0%)	1/30 (3%)	2/30 (7%)	0/36 (0%)	0/29 (0%)
FIRST INCIDENCE	679	345	729 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.145N	P=0.491	P=0.490	P=0.505N	P=0.521N
POLY 3	P=0.150N	P=0.483	P=0.468	P=0.502N	P=0.507N
POLY 1.5	P=0.149N	P=0.488	P=0.476	P=0.502N	P=0.505N
POLY 6	P=0.151N	P=0.481	P=0.462	P=0.500N	P=0.510N
LOGISTIC REGRESSION	P=0.164N	P=0.656	P=0.466	P=0.497N	P=0.505N
COCH-ARM / FISHERS	P=0.150N	P=0.500	P=0.492	P=0.500N	P=0.505N
ORDER RESTRICTED	P=0.185N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.198N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	1/49 (2%)	5/50 (10%)	2/49 (4%)
POLY-3 RATE (b)	4/44.99	3/41.91	1/41.33	5/44.68	2/43
POLY-3 PERCENT (g)	8.9%	7.2%	2.4%	11.2%	4.7%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	0/30 (0%)	4/36 (11%)	2/29 (7%)
FIRST INCIDENCE	587	636	503	549	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.432N	P=0.514N	P=0.202N	P=0.593	P=0.340N
POLY 3	P=0.429N	P=0.539N	P=0.205N	P=0.496	P=0.358N
POLY 1.5	P=0.430N	P=0.528N	P=0.199N	P=0.496	P=0.352N
POLY 6	P=0.437N	P=0.544N	P=0.211N	P=0.501	P=0.368N
LOGISTIC REGRESSION	P=0.449N	P=0.505N	P=0.137N	P=0.504	P=0.347N
COCH-ARM / FISHERS	P=0.445N	P=0.500N	P=0.187N	P=0.500	P=0.349N
ORDER RESTRICTED	P=0.374N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/49 (2%)	5/50 (10%)	2/49 (4%)
POLY-3 RATE (b)	3/44.8	3/41.91	1/41.33	5/44.68	2/43
POLY-3 PERCENT (g)	6.7%	7.2%	2.4%	11.2%	4.7%
TERMINAL (d)	1/28 (4%)	1/30 (3%)	0/30 (0%)	4/36 (11%)	2/29 (7%)
FIRST INCIDENCE	587	636	503	549	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.515N	P=0.653	P=0.313N	P=0.457	P=0.491N
POLY 3	P=0.517N	P=0.632	P=0.334N	P=0.355	P=0.519N
POLY 1.5	P=0.517N	P=0.640	P=0.328N	P=0.354	P=0.514N
POLY 6	P=0.524N	P=0.630	P=0.340N	P=0.361	P=0.527N
LOGISTIC REGRESSION	P=0.534N	P=0.659	P=0.243N	P=0.359	P=0.511N
COCH-ARM / FISHERS	P=0.530N	P=0.661N	P=0.316N	P=0.357	P=0.510N
ORDER RESTRICTED	P=0.543	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.547	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

Testes  
 Adenoma

**TUMOR RATES**

OVERALL (a)	48/50 (96%)	44/50 (88%)	43/49 (88%)	49/50 (98%)	42/49 (86%)
POLY-3 RATE (b)	48/49.26	44/46.89	43/45.49	49/49.16	42/46.54
POLY-3 PERCENT (g)	97.5%	93.8%	94.5%	99.7%	90.3%
TERMINAL (d)	28/28 (100%)	29/30 (97%)	30/30 (100%)	36/36 (100%)	28/29 (97%)
FIRST INCIDENCE	484	454	501	520	543

**STATISTICAL TESTS**

LIFE TABLE	P=0.260N	P=0.271N	P=0.249N	P=0.139N	P=0.198N
POLY 3	P=0.101N	P=0.343N	P=0.404N	P=0.464	P=0.110N
POLY 1.5	P=0.097N	P=0.260N	P=0.268N	P=0.462	P=0.083N
POLY 6	P=0.198N	P=0.401N	P=0.613N	P=0.503	P=0.214N
LOGISTIC REGRESSION	P=0.024N*	P=0.387N	P=0.338N	P=0.376	P=0.045N*
COCH-ARM / FISHERS	P=0.199N	P=0.134N	P=0.128N	P=0.500	P=0.075N
ORDER RESTRICTED	P=0.037N*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.048N*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	5/50 (10%)	6/50 (12%)	3/49 (6%)	7/50 (14%)	7/49 (14%)
POLY-3 RATE (b)	5/44.71	6/41.77	3/41.38	7/44.98	7/43.28
POLY-3 PERCENT (g)	11.2%	14.4%	7.3%	15.6%	16.2%
TERMINAL (d)	4/28 (14%)	4/30 (13%)	0/30 (0%)	5/36 (14%)	6/29 (21%)
FIRST INCIDENCE	617	687	631	549	652

**STATISTICAL TESTS**

LIFE TABLE	P=0.251	P=0.528	P=0.373N	P=0.504	P=0.386
POLY 3	P=0.255	P=0.452	P=0.399N	P=0.383	P=0.356
POLY 1.5	P=0.254	P=0.465	P=0.391N	P=0.379	P=0.361
POLY 6	P=0.248	P=0.448	P=0.403N	P=0.396	P=0.346
LOGISTIC REGRESSION	P=0.256	P=0.451	P=0.379N	P=0.377	P=0.349
COCH-ARM / FISHERS	P=0.238	P=0.500	P=0.369N	P=0.380	P=0.365
ORDER RESTRICTED	P=0.402	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.411	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: C-Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/49 (2%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	1/44.31	2/41.51	1/40.98	3/44.1	2/43
POLY-3 PERCENT (g)	2.3%	4.8%	2.4%	6.8%	4.7%
TERMINAL (d)	1/28 (4%)	2/30 (7%)	0/30 (0%)	3/36 (8%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	640	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.434	P=0.524	P=0.749	P=0.398	P=0.512
POLY 3	P=0.439	P=0.477	P=0.743	P=0.303	P=0.489
POLY 1.5	P=0.438	P=0.483	P=0.747	P=0.303	P=0.492
POLY 6	P=0.435	P=0.475	P=0.741	P=0.308	P=0.485
LOGISTIC REGRESSION	P=0.435	P=0.524	P=0.760	P=0.398	P=0.512
COCH-ARM / FISHERS	P=0.426	P=0.500	P=0.747	P=0.309	P=0.492
ORDER RESTRICTED	P=0.360	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.370	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	6/50 (12%)	7/50 (14%)	4/49 (8%)	10/50 (20%)	9/49 (18%)
POLY-3 RATE (b)	6/44.71	7/41.77	4/41.7	10/44.98	9/43.28
POLY-3 PERCENT (g)	13.4%	16.8%	9.6%	22.2%	20.8%
TERMINAL (d)	5/28 (18%)	5/30 (17%)	0/30 (0%)	8/36 (22%)	8/29 (28%)
FIRST INCIDENCE	617	687	631	549	652

**STATISTICAL TESTS**

LIFE TABLE	P=0.162	P=0.534	P=0.392N	P=0.344	P=0.295
POLY 3	P=0.163	P=0.447	P=0.414N	P=0.207	P=0.262
POLY 1.5	P=0.164	P=0.462	P=0.406N	P=0.205	P=0.269
POLY 6	P=0.155	P=0.442	P=0.414N	P=0.218	P=0.251
LOGISTIC REGRESSION	P=0.168	P=0.446	P=0.393N	P=0.203	P=0.251
COCH-ARM / FISHERS	P=0.152	P=0.500	P=0.383N	P=0.207	P=0.274
ORDER RESTRICTED	P=0.251	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.263	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: Follicular Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	1/50 (2%)	3/49 (6%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	1/44.1	3/43.67
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	6.9%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	729 (T)	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.007**	(e)	(e)	P=0.550	P=0.118
POLY 3	P=0.007**	(e)	(e)	P=0.499	P=0.116
POLY 1.5	P=0.007**	(e)	(e)	P=0.499	P=0.116
POLY 6	P=0.007**	(e)	(e)	P=0.502	P=0.115
LOGISTIC REGRESSION	P=0.006**	(e)	(e)	P=0.550	P=0.113
COCH-ARM / FISHERS	P=0.006**	(e)	(e)	P=0.500	P=0.117
ORDER RESTRICTED	P=0.010**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	1/50 (2%)	3/49 (6%)
POLY-3 RATE (b)	0/44.31	0/41.51	0/40.66	1/44.1	3/43.67
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	6.9%
TERMINAL (d)	0/28 (0%)	0/30 (0%)	0/30 (0%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	729 (T)	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.007**	(e)	(e)	P=0.550	P=0.118
POLY 3	P=0.007**	(e)	(e)	P=0.499	P=0.116
POLY 1.5	P=0.007**	(e)	(e)	P=0.499	P=0.116
POLY 6	P=0.007**	(e)	(e)	P=0.502	P=0.115
LOGISTIC REGRESSION	P=0.006**	(e)	(e)	P=0.550	P=0.113
COCH-ARM / FISHERS	P=0.006**	(e)	(e)	P=0.500	P=0.117
ORDER RESTRICTED	P=0.010**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	26/50 (52%)	18/50 (36%)	22/49 (45%)	17/50 (34%)	19/49 (39%)
POLY-3 RATE (b)	26/49.39	18/42.99	22/46.28	17/48.32	19/45.14
POLY-3 PERCENT (g)	52.6%	41.9%	47.5%	35.2%	42.1%
TERMINAL (d)	9/28 (32%)	12/30 (40%)	11/30 (37%)	8/36 (22%)	10/29 (35%)
FIRST INCIDENCE	482	617	272	399	557

**STATISTICAL TESTS**

LIFE TABLE	P=0.261N	P=0.132N	P=0.381N	P=0.051N	P=0.183N
POLY 3	P=0.250N	P=0.204N	P=0.384N	P=0.060N	P=0.205N
POLY 1.5	P=0.242N	P=0.150N	P=0.350N	P=0.057N	P=0.169N
POLY 6	P=0.275N	P=0.266N	P=0.433N	P=0.064N	P=0.261N
LOGISTIC REGRESSION	P=0.301N	P=0.082N	P=0.162N	P=0.034N*	P=0.117N
COCH-ARM / FISHERS	P=0.257N	P=0.079N	P=0.307N	P=0.053N	P=0.131N
ORDER RESTRICTED	P=0.130N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.154N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Mesothelioma: Benign, Malignant, NOS**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/49 (4%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	2/44.6	0/41.51	2/41.34	1/44.1	0/43
POLY-3 PERCENT (g)	4.5%	0%	4.8%	2.3%	0%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	1/30 (3%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	652	---	501	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.235N	P=0.248N	P=0.685	P=0.456N	P=0.249N
POLY 3	P=0.230N	P=0.253N	P=0.667	P=0.504N	P=0.245N
POLY 1.5	P=0.233N	P=0.249N	P=0.672	P=0.503N	P=0.243N
POLY 6	P=0.232N	P=0.256N	P=0.662	P=0.501N	P=0.249N
LOGISTIC REGRESSION	P=0.250N	P=0.241N	P=0.666N	P=0.501N	P=0.242N
COCH-ARM / FISHERS	P=0.242N	P=0.247N	P=0.684	P=0.500N	P=0.253N
ORDER RESTRICTED	P=0.131N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.145N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/49 (4%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	2/44.6	0/41.51	2/41.34	1/44.1	0/43
POLY-3 PERCENT (g)	4.5%	0%	4.8%	2.3%	0%
TERMINAL (d)	1/28 (4%)	0/30 (0%)	1/30 (3%)	1/36 (3%)	0/29 (0%)
FIRST INCIDENCE	652	---	501	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.235N	P=0.248N	P=0.685	P=0.456N	P=0.249N
POLY 3	P=0.230N	P=0.253N	P=0.667	P=0.504N	P=0.245N
POLY 1.5	P=0.233N	P=0.249N	P=0.672	P=0.503N	P=0.243N
POLY 6	P=0.232N	P=0.256N	P=0.662	P=0.501N	P=0.249N
LOGISTIC REGRESSION	P=0.250N	P=0.241N	P=0.666N	P=0.501N	P=0.242N
COCH-ARM / FISHERS	P=0.242N	P=0.247N	P=0.684	P=0.500N	P=0.253N
ORDER RESTRICTED	P=0.131N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.145N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Benign Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	49/50 (98%)	47/50 (94%)	47/49 (96%)	49/50 (98%)	49/49 (100%)
POLY-3 RATE (b)	49/49.29	47/47.29	47/47.13	49/49.16	49/49
POLY-3 PERCENT (g)	99.4%	99.4%	99.7%	99.7%	100%
TERMINAL (d)	28/28 (100%)	30/30 (100%)	30/30 (100%)	36/36 (100%)	29/29 (100%)
FIRST INCIDENCE	484	454	501	520	543

**STATISTICAL TESTS**

LIFE TABLE	P=0.463	P=0.397N	P=0.458N	P=0.104N	P=0.556
POLY 3	P=0.859	P=0.998N	P=0.997	P=0.995	P=0.993
POLY 1.5	P=0.334	P=0.775N	P=0.935	P=0.899	P=0.805
POLY 6	P=1.000	P=1.000	P=1.000	P=1.000	P=1.000
LOGISTIC REGRESSION	P=0.989	P=0.412	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.133	P=0.309N	P=0.492N	P=0.753N	P=0.505
ORDER RESTRICTED	P=0.195	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.204	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Malignant Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	29/50 (58%)	26/50 (52%)	31/49 (63%)	29/50 (58%)	33/49 (67%)
POLY-3 RATE (b)	29/49.45	26/46.16	31/47.45	29/48.32	33/47.29
POLY-3 PERCENT (g)	58.7%	56.3%	65.3%	60%	69.8%
TERMINAL (d)	11/28 (39%)	15/30 (50%)	17/30 (57%)	20/36 (56%)	18/29 (62%)
FIRST INCIDENCE	482	337	272	399	543

**STATISTICAL TESTS**

LIFE TABLE	P=0.231	P=0.394N	P=0.383	P=0.326N	P=0.312
POLY 3	P=0.129	P=0.491N	P=0.319	P=0.527	P=0.174
POLY 1.5	P=0.132	P=0.436N	P=0.341	P=0.549	P=0.196
POLY 6	P=0.122	P=0.551N	P=0.291	P=0.502	P=0.148
LOGISTIC REGRESSION	P=0.102	P=0.272N	P=0.507	P=0.576N	P=0.244
COCH-ARM / FISHERS	P=0.129	P=0.344N	P=0.371	P=0.580N	P=0.226
ORDER RESTRICTED	P=0.171	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.188	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Males				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	50/50 (100%)	49/50 (98%)	49/49 (100%)	50/50 (100%)	49/49 (100%)
POLY-3 RATE (b)	50/50	49/49.09	49/49	50/50	49/49
POLY-3 PERCENT (g)	100%	99.8%	100%	100%	100%
TERMINAL (d)	28/28 (100%)	30/30 (100%)	30/30 (100%)	36/36 (100%)	29/29 (100%)
FIRST INCIDENCE	482	337	272	399	543

**STATISTICAL TESTS**

LIFE TABLE	P=0.481N	P=0.468N	(e)	(e)	(e)
POLY 3	P=1.000	P=1.000N	(e)	(e)	(e)
POLY 1.5	P=0.991	P=0.992N	(e)	(e)	(e)
POLY 6	P=1.000	P=1.000N	(e)	(e)	(e)
LOGISTIC REGRESSION	P=0.999	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.574	P=0.500N	(e)	(e)	(e)
ORDER RESTRICTED	P=0.374	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.382	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	2/49 (4%)	2/50 (4%)	2/49 (4%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	2/43.53	2/43.84	2/43.44	4/43.27	0/42.89
POLY-3 PERCENT (g)	4.6%	4.6%	4.6%	9.3%	0%
TERMINAL (d)	2/33 (6%)	2/32 (6%)	1/31 (3%)	4/36 (11%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	662	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.199N	P=0.685	P=0.681	P=0.377	P=0.252N
POLY 3	P=0.200N	P=0.692N	P=0.693	P=0.334	P=0.240N
POLY 1.5	P=0.196N	P=0.690N	P=0.693	P=0.337	P=0.237N
POLY 6	P=0.205N	P=0.694N	P=0.694	P=0.334	P=0.243N
LOGISTIC REGRESSION	P=0.198N	P=0.685	P=0.692	P=0.377	(e)
COCH-ARM / FISHERS	P=0.189N	P=0.684N	P=0.691N	P=0.349	P=0.242N
ORDER RESTRICTED	P=0.169N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.184N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma Malignant**

**TUMOR RATES**

OVERALL (a)	1/49 (2%)	2/50 (4%)	1/49 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.53	2/44.23	1/43.71	1/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	4.5%	2.3%	2.3%	0%
TERMINAL (d)	1/33 (3%)	1/32 (3%)	0/31 (0%)	1/36 (3%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	618	571	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.230N	P=0.493	P=0.751	P=0.742N	P=0.512N
POLY 3	P=0.225N	P=0.506	P=0.760N	P=0.759	P=0.503N
POLY 1.5	P=0.222N	P=0.505	P=0.760N	P=0.760N	P=0.500N
POLY 6	P=0.228N	P=0.506	P=0.760N	P=0.760	P=0.506N
LOGISTIC REGRESSION	P=0.210N	P=0.508	P=0.755N	P=0.742N	(e)
COCH-ARM / FISHERS	P=0.216N	P=0.508	P=0.753N	P=0.747N	P=0.495N
ORDER RESTRICTED	P=0.252N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.265N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Adrenal Medulla  
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

**TUMOR RATES**

OVERALL (a)	3/49 (6%)	4/50 (8%)	3/49 (6%)	5/50 (10%)	0/50 (0%)
POLY-3 RATE (b)	3/43.53	4/44.23	3/43.96	5/43.27	0/42.89
POLY-3 PERCENT (g)	6.9%	9%	6.8%	11.6%	0%
TERMINAL (d)	3/33 (9%)	3/32 (9%)	1/31 (3%)	5/36 (14%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	618	571	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.085N	P=0.486	P=0.644	P=0.404	P=0.132N
POLY 3	P=0.084N	P=0.509	P=0.658N	P=0.352	P=0.121N
POLY 1.5	P=0.081N	P=0.509	P=0.660N	P=0.357	P=0.119N
POLY 6	P=0.088N	P=0.510	P=0.655N	P=0.353	P=0.123N
LOGISTIC REGRESSION	P=0.081N	P=0.502	P=0.662N	P=0.404	(e)
COCH-ARM / FISHERS	P=0.076N	P=0.511	P=0.661N	P=0.369	P=0.117N
ORDER RESTRICTED	P=0.093N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.105N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	9/50 (18%)	8/50 (16%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	2/44.53	9/43.99	8/44.34	5/43.27	5/43.32
POLY-3 PERCENT (g)	4.5%	20.5%	18%	11.6%	11.5%
TERMINAL (d)	1/33 (3%)	8/32 (25%)	7/32 (22%)	5/36 (14%)	4/31 (13%)
FIRST INCIDENCE	689	689	689	729 (T)	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.449N	P=0.023*	P=0.043*	P=0.245	P=0.191
POLY 3	P=0.437N	P=0.023*	P=0.044*	P=0.204	P=0.204
POLY 1.5	P=0.429N	P=0.024*	P=0.044*	P=0.208	P=0.209
POLY 6	P=0.443N	P=0.022*	P=0.042*	P=0.203	P=0.200
LOGISTIC REGRESSION	P=0.447N	P=0.024*	P=0.045*	P=0.212	P=0.204
COCH-ARM / FISHERS	P=0.416N	P=0.026*	P=0.046*	P=0.218	P=0.218
ORDER RESTRICTED	P=0.102	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.116	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	8/50 (16%)	11/50 (22%)	5/50 (10%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	8/44.77	11/44.73	5/44.19	3/44.43	5/42.89
POLY-3 PERCENT (g)	17.9%	24.6%	11.3%	6.8%	11.7%
TERMINAL (d)	6/33 (18%)	8/32 (25%)	5/32 (16%)	1/36 (3%)	5/31 (16%)
FIRST INCIDENCE	654	605	729 (T)	447	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.147N	P=0.291	P=0.293N	P=0.095N	P=0.318N
POLY 3	P=0.138N	P=0.302	P=0.283N	P=0.100N	P=0.302N
POLY 1.5	P=0.134N	P=0.302	P=0.280N	P=0.101N	P=0.292N
POLY 6	P=0.142N	P=0.304	P=0.287N	P=0.096N	P=0.314N
LOGISTIC REGRESSION	P=0.139N	P=0.293	P=0.278N	P=0.095N	P=0.304N
COCH-ARM / FISHERS	P=0.128N	P=0.306	P=0.277N	P=0.100N	P=0.277N
ORDER RESTRICTED	P=0.084N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.099N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Clitoral/Preputial Gland  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	10/50 (20%)	19/50 (38%)	13/50 (26%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	10/44.92	19/44.89	13/44.34	8/44.43	10/43.32
POLY-3 PERCENT (g)	22.3%	42.3%	29.3%	18%	23.1%
TERMINAL (d)	7/33 (21%)	15/32 (47%)	12/32 (38%)	6/36 (17%)	9/31 (29%)
FIRST INCIDENCE	654	605	689	447	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.170N	P=0.035*	P=0.288	P=0.357N	P=0.533
POLY 3	P=0.156N	P=0.032*	P=0.301	P=0.406N	P=0.564
POLY 1.5	P=0.149N	P=0.033*	P=0.308	P=0.405N	P=0.578
POLY 6	P=0.162N	P=0.031*	P=0.289	P=0.402N	P=0.549
LOGISTIC REGRESSION	P=0.165N	P=0.032*	P=0.305	P=0.410N	P=0.556
COCH-ARM / FISHERS	P=0.141N	P=0.038*	P=0.318	P=0.398N	P=0.598N
ORDER RESTRICTED	P=0.171N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.189N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/44.41	1/43.84	2/44.67	3/43.27	2/42.89
POLY-3 PERCENT (g)	4.5%	2.3%	4.5%	6.9%	4.7%
TERMINAL (d)	1/33 (3%)	1/32 (3%)	1/32 (3%)	3/36 (8%)	2/31 (7%)
FIRST INCIDENCE	721	729 (T)	586	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.491	P=0.514N	P=0.682	P=0.537	P=0.674
POLY 3	P=0.491	P=0.504N	P=0.692N	P=0.488	P=0.682
POLY 1.5	P=0.499	P=0.503N	P=0.693N	P=0.491	P=0.686
POLY 6	P=0.485	P=0.506N	P=0.691N	P=0.489	P=0.678
LOGISTIC REGRESSION	P=0.492	P=0.512N	P=0.695N	P=0.511	P=0.681
COCH-ARM / FISHERS	P=0.510	P=0.500N	P=0.691N	P=0.500	P=0.691N
ORDER RESTRICTED	P=0.514	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.520	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Islets, Pancreatic  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/44.41	1/43.84	2/44.67	3/43.27	2/42.89
POLY-3 PERCENT (g)	4.5%	2.3%	4.5%	6.9%	4.7%
TERMINAL (d)	1/33 (3%)	1/32 (3%)	1/32 (3%)	3/36 (8%)	2/31 (7%)
FIRST INCIDENCE	721	729 (T)	586	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.491	P=0.514N	P=0.682	P=0.537	P=0.674
POLY 3	P=0.491	P=0.504N	P=0.692N	P=0.488	P=0.682
POLY 1.5	P=0.499	P=0.503N	P=0.693N	P=0.491	P=0.686
POLY 6	P=0.485	P=0.506N	P=0.691N	P=0.489	P=0.678
LOGISTIC REGRESSION	P=0.492	P=0.512N	P=0.695N	P=0.511	P=0.681
COCH-ARM / FISHERS	P=0.510	P=0.500N	P=0.691N	P=0.500	P=0.691N
ORDER RESTRICTED	P=0.514	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.520	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

Liver  
 Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.49	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	700	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.335N	P=0.748	P=0.517N	P=0.505N	P=0.511N
POLY 3	P=0.334N	P=0.757	P=0.501N	P=0.506N	P=0.507N
POLY 1.5	P=0.334N	P=0.758	P=0.501N	P=0.504N	P=0.504N
POLY 6	P=0.334N	P=0.756	P=0.502N	P=0.505N	P=0.510N
LOGISTIC REGRESSION	P=0.338N	P=0.759	P=0.500N	P=0.503N	P=0.504N
COCH-ARM / FISHERS	P=0.332N	P=0.753N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.229N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.245N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Lung  
 Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/44.37	3/43.84	2/44.19	3/43.27	3/42.93
POLY-3 PERCENT (g)	9%	6.8%	4.5%	6.9%	7%
TERMINAL (d)	4/33 (12%)	3/32 (9%)	2/32 (6%)	3/36 (8%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	721

**STATISTICAL TESTS**

LIFE TABLE	P=0.586N	P=0.517N	P=0.350N	P=0.452N	P=0.532N
POLY 3	P=0.579N	P=0.507N	P=0.339N	P=0.514N	P=0.518N
POLY 1.5	P=0.572N	P=0.505N	P=0.339N	P=0.510N	P=0.511N
POLY 6	P=0.583N	P=0.508N	P=0.339N	P=0.512N	P=0.524N
LOGISTIC REGRESSION	P=0.575N	P=0.517N	P=0.350N	P=0.452N	P=0.523N
COCH-ARM / FISHERS	P=0.563N	P=0.500N	P=0.339N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.517N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.523N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/44.37	3/43.84	2/44.19	3/43.27	3/42.93
POLY-3 PERCENT (g)	9%	6.8%	4.5%	6.9%	7%
TERMINAL (d)	4/33 (12%)	3/32 (9%)	2/32 (6%)	3/36 (8%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	721

**STATISTICAL TESTS**

LIFE TABLE	P=0.586N	P=0.517N	P=0.350N	P=0.452N	P=0.532N
POLY 3	P=0.579N	P=0.507N	P=0.339N	P=0.514N	P=0.518N
POLY 1.5	P=0.572N	P=0.505N	P=0.339N	P=0.510N	P=0.511N
POLY 6	P=0.583N	P=0.508N	P=0.339N	P=0.512N	P=0.524N
LOGISTIC REGRESSION	P=0.575N	P=0.517N	P=0.350N	P=0.452N	P=0.523N
COCH-ARM / FISHERS	P=0.563N	P=0.500N	P=0.339N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.517N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.523N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.37	1/43.84	3/44.67	0/43.27	0/42.89
POLY-3 PERCENT (g)	4.5%	2.3%	6.7%	0%	0%
TERMINAL (d)	2/33 (6%)	1/32 (3%)	2/32 (6%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	586	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.121N	P=0.511N	P=0.487	P=0.219N	P=0.252N
POLY 3	P=0.119N	P=0.504N	P=0.503	P=0.243N	P=0.245N
POLY 1.5	P=0.118N	P=0.503N	P=0.501	P=0.241N	P=0.242N
POLY 6	P=0.120N	P=0.505N	P=0.506	P=0.242N	P=0.247N
LOGISTIC REGRESSION	P=0.120N	P=0.511N	P=0.499	(e)	(e)
COCH-ARM / FISHERS	P=0.117N	P=0.500N	P=0.500	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.162N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.180N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	3/44	1/44.19	1/43.27	0/42.89
POLY-3 PERCENT (g)	0%	6.8%	2.3%	2.3%	0%
TERMINAL (d)	0/33 (0%)	2/32 (6%)	1/32 (3%)	1/36 (3%)	0/31 (0%)
FIRST INCIDENCE	---	686	729 (T)	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.236N	P=0.115	P=0.494	P=0.517	(e)
POLY 3	P=0.236N	P=0.117	P=0.499	P=0.495	(e)
POLY 1.5	P=0.234N	P=0.117	P=0.499	P=0.496	(e)
POLY 6	P=0.239N	P=0.117	P=0.499	P=0.496	(e)
LOGISTIC REGRESSION	P=0.236N	P=0.117	P=0.494	P=0.517	(e)
COCH-ARM / FISHERS	P=0.229N	P=0.121	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.247N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.262N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Carcinoma or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/44.37	4/44	4/44.67	1/43.27	0/42.89
POLY-3 PERCENT (g)	4.5%	9.1%	9%	2.3%	0%
TERMINAL (d)	2/33 (6%)	3/32 (9%)	3/32 (9%)	1/36 (3%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	686	586	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.050N*	P=0.320	P=0.324	P=0.470N	P=0.252N
POLY 3	P=0.050N*	P=0.333	P=0.340	P=0.509N	P=0.245N
POLY 1.5	P=0.049N*	P=0.334	P=0.339	P=0.507N	P=0.242N
POLY 6	P=0.051N	P=0.333	P=0.342	P=0.508N	P=0.247N
LOGISTIC REGRESSION	P=0.050N*	P=0.325	P=0.335	P=0.470N	(e)
COCH-ARM / FISHERS	P=0.047N*	P=0.339	P=0.339	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.085N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.087N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroadenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	37/50 (74%)	31/50 (62%)	37/50 (74%)	30/50 (60%)	23/50 (46%)
POLY-3 RATE (b)	37/47.88	31/46	37/46.66	30/45.18	23/44.11
POLY-3 PERCENT (g)	77.3%	67.4%	79.3%	66.4%	52.1%
TERMINAL (d)	26/33 (79%)	23/32 (72%)	26/32 (81%)	25/36 (69%)	18/31 (58%)
FIRST INCIDENCE	489	560	571	559	560

**STATISTICAL TESTS**

LIFE TABLE	P=0.010N**	P=0.233N	P=0.505	P=0.071N	P=0.020N*
POLY 3	P=0.003N**	P=0.191N	P=0.505	P=0.165N	P=0.007N**
POLY 1.5	P=0.002N**	P=0.171N	P=0.538	P=0.139N	P=0.005N**
POLY 6	P=0.004N**	P=0.216N	P=0.474	P=0.186N	P=0.011N*
LOGISTIC REGRESSION	P=0.003N**	P=0.152N	P=0.581	P=0.130N	P=0.005N**
COCH-ARM / FISHERS	P=0.002N**	P=0.142N	P=0.590N	P=0.101N	P=0.004N**
ORDER RESTRICTED	P=0.004N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.005N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroma, Fibroadenoma or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	37/50 (74%)	31/50 (62%)	38/50 (76%)	30/50 (60%)	23/50 (46%)
POLY-3 RATE (b)	37/47.88	31/46	38/47.14	30/45.18	23/44.11
POLY-3 PERCENT (g)	77.3%	67.4%	80.6%	66.4%	52.1%
TERMINAL (d)	26/33 (79%)	23/32 (72%)	26/32 (81%)	25/36 (69%)	18/31 (58%)
FIRST INCIDENCE	489	560	571	559	560

**STATISTICAL TESTS**

LIFE TABLE	P=0.009N**	P=0.233N	P=0.435	P=0.071N	P=0.020N*
POLY 3	P=0.002N**	P=0.191N	P=0.439	P=0.165N	P=0.007N**
POLY 1.5	P=0.002N**	P=0.171N	P=0.460	P=0.139N	P=0.005N**
POLY 6	P=0.004N**	P=0.216N	P=0.428	P=0.186N	P=0.011N*
LOGISTIC REGRESSION	P=0.002N**	P=0.152N	P=0.487	P=0.130N	P=0.005N**
COCH-ARM / FISHERS	P<0.001N**	P=0.142N	P=0.500	P=0.101N	P=0.004N**
ORDER RESTRICTED	P=0.004N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.004N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Mammary Gland  
 Fibroma, Fibroadenoma, Carcinoma, or Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	37/50 (74%)	31/50 (62%)	39/50 (78%)	30/50 (60%)	23/50 (46%)
POLY-3 RATE (b)	37/47.88	31/46	39/47.14	30/45.18	23/44.11
POLY-3 PERCENT (g)	77.3%	67.4%	82.7%	66.4%	52.1%
TERMINAL (d)	26/33 (79%)	23/32 (72%)	27/32 (84%)	25/36 (69%)	18/31 (58%)
FIRST INCIDENCE	489	560	571	559	560

**STATISTICAL TESTS**

LIFE TABLE	P=0.007N**	P=0.233N	P=0.366	P=0.071N	P=0.020N*
POLY 3	P=0.002N**	P=0.191N	P=0.335	P=0.165N	P=0.007N**
POLY 1.5	P<0.001N**	P=0.171N	P=0.360	P=0.139N	P=0.005N**
POLY 6	P=0.003N**	P=0.216N	P=0.318	P=0.186N	P=0.011N*
LOGISTIC REGRESSION	P=0.002N**	P=0.152N	P=0.391	P=0.130N	P=0.005N**
COCH-ARM / FISHERS	P<0.001N**	P=0.142N	P=0.408	P=0.101N	P=0.004N**
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.003N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Papilloma Squamous or Papilloma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.76	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.2%	2.3%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	618	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.343N	P=0.757	P=0.509N	P=0.514N	P=0.523N
POLY 3	P=0.334N	P=0.756	P=0.503N	P=0.507N	P=0.509N
POLY 1.5	P=0.333N	P=0.758	P=0.502N	P=0.505N	P=0.505N
POLY 6	P=0.334N	P=0.754	P=0.504N	P=0.507N	P=0.512N
LOGISTIC REGRESSION	P=0.326N	P=0.757N	P=0.483N	P=0.448N	P=0.452N
COCH-ARM / FISHERS	P=0.332N	P=0.753N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.229N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.247N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	11/50 (22%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	2/43.57	11/45.99
POLY-3 PERCENT (g)	0%	0%	0%	4.6%	23.9%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	1/36 (3%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	646	506

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	(e)	(e)	P=0.249	P<0.001**
POLY 3	P<0.001**	(e)	(e)	P=0.233	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.234	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.235	P<0.001**
LOGISTIC REGRESSION	P<0.001**	(e)	(e)	P=0.238	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.247	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)  
 Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	11/50 (22%)
POLY-3 RATE (b)	1/44.76	1/43.84	0/44.19	2/43.57	11/45.99
POLY-3 PERCENT (g)	2.2%	2.3%	0%	4.6%	23.9%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	1/36 (3%)	2/31 (7%)
FIRST INCIDENCE	618	729 (T)	---	646	506

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.757	P=0.509N	P=0.502	P=0.004**
POLY 3	P<0.001**	P=0.756	P=0.503N	P=0.491	P=0.002**
POLY 1.5	P<0.001**	P=0.758	P=0.502N	P=0.493	P=0.002**
POLY 6	P<0.001**	P=0.754	P=0.504N	P=0.491	P=0.002**
LOGISTIC REGRESSION	P<0.001**	P=0.757N	P=0.483N	P=0.524	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P=0.753N	P=0.500N	P=0.500	P=0.002**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Oral Mucosa  
 Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	11/50 (22%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	2/43.57	11/45.99
POLY-3 PERCENT (g)	0%	0%	0%	4.6%	23.9%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	1/36 (3%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	646	506

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	(e)	(e)	P=0.249	P<0.001**
POLY 3	P<0.001**	(e)	(e)	P=0.233	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.234	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.235	P<0.001**
LOGISTIC REGRESSION	P<0.001**	(e)	(e)	P=0.238	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.247	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Pancreas  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	28/50 (56%)	29/50 (58%)	25/50 (50%)	22/50 (44%)	12/49 (24%)
POLY-3 RATE (b)	28/46.31	29/47.33	25/46.32	22/45.53	12/43.17
POLY-3 PERCENT (g)	60.5%	61.3%	54%	48.3%	27.8%
TERMINAL (d)	20/33 (61%)	18/32 (56%)	16/32 (50%)	16/36 (44%)	9/31 (29%)
FIRST INCIDENCE	489	461	534	580	647

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P=0.441	P=0.413N	P=0.130N	P=0.004N**
POLY 3	P<0.001N**	P=0.553	P=0.334N	P=0.164N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.524	P=0.340N	P=0.168N	P<0.001N**
POLY 6	P<0.001N**	P=0.576N	P=0.322N	P=0.146N	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.483	P=0.349N	P=0.184N	P=0.002N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500	P=0.344N	P=0.159N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/45.1	1/43.84	0/44.19	1/43.27	1/42.39
POLY-3 PERCENT (g)	4.4%	2.3%	0%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	1/36 (3%)	1/31 (3%)
FIRST INCIDENCE	623	729 (T)	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.623N	P=0.495N	P=0.232N	P=0.498N	P=0.516N
POLY 3	P=0.618N	P=0.510N	P=0.242N	P=0.514N	P=0.522N
POLY 1.5	P=0.616N	P=0.506N	P=0.240N	P=0.510N	P=0.516N
POLY 6	P=0.619N	P=0.515N	P=0.244N	P=0.518N	P=0.528N
LOGISTIC REGRESSION	P=0.613N	P=0.480N	P=0.219N	P=0.472N	P=0.481N
COCH-ARM / FISHERS	P=0.614N	P=0.500N	P=0.247N	P=0.500N	P=0.508N
ORDER RESTRICTED	P=0.319N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.335N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	30/50 (60%)	30/50 (60%)	25/50 (50%)	23/50 (46%)	13/49 (27%)
POLY-3 RATE (b)	30/47.04	30/47.33	25/46.32	23/45.53	13/43.17
POLY-3 PERCENT (g)	63.8%	63.4%	54%	50.5%	30.1%
TERMINAL (d)	20/33 (61%)	19/32 (59%)	16/32 (50%)	17/36 (47%)	10/31 (32%)
FIRST INCIDENCE	489	461	534	580	647

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P=0.510	P=0.289N	P=0.103N	P=0.003N**
POLY 3	P<0.001N**	P=0.571N	P=0.221N	P=0.135N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.580N	P=0.217N	P=0.130N	P<0.001N**
POLY 6	P<0.001N**	P=0.554N	P=0.229N	P=0.132N	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.567	P=0.213N	P=0.133N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.581N	P=0.211N	P=0.115N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Basal Cell Adenoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

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DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

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TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

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**STATISTICAL TESTS**

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LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

---

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Basal Cell Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.578N	P=0.494	(e)	(e)	(e)
POLY 3	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 1.5	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 6	P=0.573N	P=0.497	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.494	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.571N	P=0.500	(e)	(e)	(e)
ORDER RESTRICTED	P=0.376N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.390N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.578N	P=0.494	(e)	(e)	(e)
POLY 3	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 1.5	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 6	P=0.573N	P=0.497	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.494	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.571N	P=0.500	(e)	(e)	(e)
ORDER RESTRICTED	P=0.376N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.390N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin**  
 Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.37	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.336N	P=0.755	P=0.506N	P=0.483N	P=0.512N
POLY 3	P=0.334N	P=0.758	P=0.501N	P=0.505N	P=0.507N
POLY 1.5	P=0.334N	P=0.759	P=0.501N	P=0.504N	P=0.504N
POLY 6	P=0.334N	P=0.758	P=0.501N	P=0.504N	P=0.509N
LOGISTIC REGRESSION	P=0.336N	P=0.755	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.332N	P=0.753N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.229N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.245N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Fibroma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	4/50 (8%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/44.37	0/43.84	4/44.19	2/43.27	3/43.32
POLY-3 PERCENT (g)	2.3%	0%	9.1%	4.6%	6.9%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	4/32 (13%)	2/36 (6%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.214	P=0.506N	P=0.169	P=0.530	P=0.282
POLY 3	P=0.226	P=0.502N	P=0.177	P=0.491	P=0.296
POLY 1.5	P=0.229	P=0.502N	P=0.178	P=0.493	P=0.300
POLY 6	P=0.224	P=0.503N	P=0.176	P=0.492	P=0.294
LOGISTIC REGRESSION	P=0.218	(e)	P=0.169	P=0.530	P=0.299
COCH-ARM / FISHERS	P=0.235	P=0.500N	P=0.181	P=0.500	P=0.309
ORDER RESTRICTED	P=0.159	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.174	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/44.37	1/44.58	4/44.19	3/43.81	3/43.32
POLY-3 PERCENT (g)	2.3%	2.2%	9.1%	6.9%	6.9%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	4/32 (13%)	2/36 (6%)	2/31 (7%)
FIRST INCIDENCE	729 (T)	461	729 (T)	559	605

**STATISTICAL TESTS**

LIFE TABLE	P=0.296	P=0.755	P=0.169	P=0.326	P=0.282
POLY 3	P=0.299	P=0.760N	P=0.177	P=0.300	P=0.296
POLY 1.5	P=0.305	P=0.760N	P=0.178	P=0.301	P=0.300
POLY 6	P=0.296	P=0.759N	P=0.176	P=0.304	P=0.294
LOGISTIC REGRESSION	P=0.322	P=0.712N	P=0.169	P=0.307	P=0.299
COCH-ARM / FISHERS	P=0.315	P=0.753N	P=0.181	P=0.309	P=0.309
ORDER RESTRICTED	P=0.230	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.244	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	1/44.58	0/44.19	1/43.81	0/42.89
POLY-3 PERCENT (g)	0%	2.2%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	461	---	559	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.579N	P=0.496	(e)	P=0.492	(e)
POLY 3	P=0.586N	P=0.501	(e)	P=0.497	(e)
POLY 1.5	P=0.584N	P=0.500	(e)	P=0.498	(e)
POLY 6	P=0.588N	P=0.502	(e)	P=0.499	(e)
LOGISTIC REGRESSION	P=0.549N	P=0.780	(e)	P=0.623	(e)
COCH-ARM / FISHERS	P=0.580N	P=0.500	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.497	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.504	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Keratoacanthoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.548N	P=0.506N	P=0.506N	P=0.483N	P=0.512N
POLY 3	P=0.539N	P=0.502N	P=0.501N	P=0.505N	P=0.507N
POLY 1.5	P=0.540N	P=0.502N	P=0.501N	P=0.504N	P=0.504N
POLY 6	P=0.538N	P=0.503N	P=0.501N	P=0.504N	P=0.509N
LOGISTIC REGRESSION	P=0.548N	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.542N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Sarcoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	1/43.81	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	559	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.784	(e)	(e)	P=0.492	(e)
POLY 3	P=0.777	(e)	(e)	P=0.497	(e)
POLY 1.5	P=0.780	(e)	(e)	P=0.498	(e)
POLY 6	P=0.773	(e)	(e)	P=0.499	(e)
LOGISTIC REGRESSION	P=0.808	(e)	(e)	P=0.623	(e)
COCH-ARM / FISHERS	P=0.786	(e)	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.370	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.383	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Skin  
 Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	1/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/32 (3%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.578N	P=0.494	(e)	(e)	(e)
POLY 3	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 1.5	P=0.573N	P=0.498	(e)	(e)	(e)
POLY 6	P=0.573N	P=0.497	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.494	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.571N	P=0.500	(e)	(e)	(e)
ORDER RESTRICTED	P=0.376N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.390N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.548N	P=0.506N	P=0.506N	P=0.483N	P=0.512N
POLY 3	P=0.539N	P=0.502N	P=0.501N	P=0.505N	P=0.507N
POLY 1.5	P=0.540N	P=0.502N	P=0.501N	P=0.504N	P=0.504N
POLY 6	P=0.538N	P=0.503N	P=0.501N	P=0.504N	P=0.509N
LOGISTIC REGRESSION	P=0.548N	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.542N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

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 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.548N	P=0.506N	P=0.506N	P=0.483N	P=0.512N
POLY 3	P=0.539N	P=0.502N	P=0.501N	P=0.505N	P=0.507N
POLY 1.5	P=0.540N	P=0.502N	P=0.501N	P=0.504N	P=0.504N
POLY 6	P=0.538N	P=0.503N	P=0.501N	P=0.504N	P=0.509N
LOGISTIC REGRESSION	P=0.548N	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.542N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

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 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	8/50 (16%)	5/50 (10%)	7/50 (14%)	4/50 (8%)	9/50 (18%)
POLY-3 RATE (b)	8/44.98	5/44.62	7/44.19	4/44.13	9/43.35
POLY-3 PERCENT (g)	17.8%	11.2%	15.8%	9.1%	20.8%
TERMINAL (d)	6/33 (18%)	3/32 (9%)	7/32 (22%)	3/36 (8%)	8/31 (26%)
FIRST INCIDENCE	580	560	729 (T)	379	595

**STATISTICAL TESTS**

LIFE TABLE	P=0.242	P=0.300N	P=0.530N	P=0.156N	P=0.442
POLY 3	P=0.250	P=0.280N	P=0.515N	P=0.185N	P=0.466
POLY 1.5	P=0.259	P=0.280N	P=0.509N	P=0.183N	P=0.479
POLY 6	P=0.242	P=0.279N	P=0.524N	P=0.184N	P=0.453
LOGISTIC REGRESSION	P=0.257	P=0.279N	P=0.505N	P=0.171N	P=0.465
COCH-ARM / FISHERS	P=0.273	P=0.277N	P=0.500N	P=0.178N	P=0.500
ORDER RESTRICTED	P=0.291	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.306	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: C-Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/44.76	0/43.84	0/44.19	2/43.27	2/42.89
POLY-3 PERCENT (g)	4.5%	0%	0%	4.6%	4.7%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	0/32 (0%)	2/36 (6%)	2/31 (7%)
FIRST INCIDENCE	618	---	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.245	P=0.243N	P=0.248N	P=0.676N	P=0.666
POLY 3	P=0.254	P=0.242N	P=0.240N	P=0.682	P=0.679
POLY 1.5	P=0.259	P=0.240N	P=0.239N	P=0.685	P=0.685
POLY 6	P=0.251	P=0.244N	P=0.241N	P=0.681	P=0.673
LOGISTIC REGRESSION	P=0.253	P=0.230N	P=0.234N	P=0.689	P=0.687
COCH-ARM / FISHERS	P=0.264	P=0.247N	P=0.247N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.316	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.332	(e)	(e)	(e)	(e)

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 Species/Strain: RATS/F 344

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	10/50 (20%)	5/50 (10%)	7/50 (14%)	5/50 (10%)	10/50 (20%)
POLY-3 RATE (b)	10/45.37	5/44.62	7/44.19	5/44.13	10/43.35
POLY-3 PERCENT (g)	22%	11.2%	15.8%	11.3%	23.1%
TERMINAL (d)	7/33 (21%)	3/32 (9%)	7/32 (22%)	4/36 (11%)	9/31 (29%)
FIRST INCIDENCE	580	560	729 (T)	379	595

**STATISTICAL TESTS**

LIFE TABLE	P=0.224	P=0.152N	P=0.326N	P=0.115N	P=0.533
POLY 3	P=0.232	P=0.135N	P=0.316N	P=0.140N	P=0.555
POLY 1.5	P=0.242	P=0.134N	P=0.308N	P=0.137N	P=0.572
POLY 6	P=0.222	P=0.137N	P=0.329N	P=0.143N	P=0.535
LOGISTIC REGRESSION	P=0.241	P=0.132N	P=0.299N	P=0.127N	P=0.565
COCH-ARM / FISHERS	P=0.258	P=0.131N	P=0.298N	P=0.131N	P=0.598N
ORDER RESTRICTED	P=0.271	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.288	(e)	(e)	(e)	(e)

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 Species/Strain: RATS/F 344

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Thyroid Gland: Follicular Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.37	1/44.4	1/44.44	0/43.27	1/42.89
POLY-3 PERCENT (g)	0%	2.3%	2.3%	0%	2.3%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	1/31 (3%)
FIRST INCIDENCE	---	554	662	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.537	P=0.500	P=0.510	(e)	P=0.488
POLY 3	P=0.539	P=0.500	P=0.500	(e)	P=0.493
POLY 1.5	P=0.542	P=0.500	P=0.500	(e)	P=0.496
POLY 6	P=0.535	P=0.501	P=0.501	(e)	P=0.491
LOGISTIC REGRESSION	P=0.567	P=0.603	P=0.505	(e)	P=0.488
COCH-ARM / FISHERS	P=0.548	P=0.500	P=0.500	(e)	P=0.500
ORDER RESTRICTED	P=0.305	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.319	(e)	(e)	(e)	(e)

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 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.37	1/44.4	1/44.44	0/43.27	2/42.89
POLY-3 PERCENT (g)	0%	2.3%	2.3%	0%	4.7%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	2/31 (7%)
FIRST INCIDENCE	---	554	662	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.186	P=0.500	P=0.510	(e)	P=0.224
POLY 3	P=0.190	P=0.500	P=0.500	(e)	P=0.229
POLY 1.5	P=0.193	P=0.500	P=0.500	(e)	P=0.232
POLY 6	P=0.188	P=0.501	P=0.501	(e)	P=0.227
LOGISTIC REGRESSION	P=0.206	P=0.603	P=0.505	(e)	P=0.224
COCH-ARM / FISHERS	P=0.197	P=0.500	P=0.500	(e)	P=0.247
ORDER RESTRICTED	P=0.083	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.097	(e)	(e)	(e)	(e)

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 Species/Strain: RATS/F 344

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**Uterus  
 Polyp Stromal**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	10/50 (20%)	15/50 (30%)	14/50 (28%)	17/50 (34%)	8/50 (16%)
POLY-3 RATE (b)	10/44.37	15/45.86	14/45.15	17/45.02	8/44.2
POLY-3 PERCENT (g)	22.5%	32.7%	31%	37.8%	18.1%
TERMINAL (d)	10/33 (30%)	9/32 (28%)	10/32 (31%)	13/36 (36%)	5/31 (16%)
FIRST INCIDENCE	729 (T)	554	586	493	461

**STATISTICAL TESTS**

LIFE TABLE	P=0.167N	P=0.165	P=0.219	P=0.126	P=0.449N
POLY 3	P=0.139N	P=0.198	P=0.251	P=0.087	P=0.399N
POLY 1.5	P=0.135N	P=0.186	P=0.246	P=0.085	P=0.400N
POLY 6	P=0.144N	P=0.219	P=0.263	P=0.098	P=0.396N
LOGISTIC REGRESSION	P=0.143N	P=0.169	P=0.231	P=0.074	P=0.424N
COCH-ARM / FISHERS	P=0.131N	P=0.178	P=0.241	P=0.088	P=0.398N
ORDER RESTRICTED	P=0.143N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.154N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
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 Species/Strain: RATS/F 344

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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

TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	18/50 (36%)	13/50 (26%)	7/50 (14%)	11/50 (22%)
POLY-3 RATE (b)	8/45.97	18/46.94	13/46.68	7/45.82	11/44.83
POLY-3 PERCENT (g)	17.4%	38.4%	27.9%	15.3%	24.5%
TERMINAL (d)	2/33 (6%)	8/32 (25%)	7/32 (22%)	2/36 (6%)	6/31 (19%)
FIRST INCIDENCE	575	387	554	379	472

**STATISTICAL TESTS**

LIFE TABLE	P=0.380N	P=0.030*	P=0.168	P=0.501N	P=0.269
POLY 3	P=0.348N	P=0.019*	P=0.170	P=0.503N	P=0.282
POLY 1.5	P=0.335N	P=0.019*	P=0.167	P=0.502N	P=0.291
POLY 6	P=0.362N	P=0.020*	P=0.173	P=0.501N	P=0.273
LOGISTIC REGRESSION	P=0.261N	P=0.022*	P=0.165	P=0.386N	P=0.339
COCH-ARM / FISHERS	P=0.317N	P=0.020*	P=0.163	P=0.500N	P=0.306
ORDER RESTRICTED	P=0.264	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.277	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
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 Species/Strain: RATS/F 344

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

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	Females				
DOSE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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**All Organs  
 Mesothelioma: Benign, Malignant, NOS**

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TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

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LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

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TDMS No. 20114 - 07  
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 Route: DOSED WATER  
 Species/Strain: RATS/F 344

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

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	Females				
DOSE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

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**All Organs  
 Mesothelioma: Malignant**

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TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.37	0/43.84	0/44.19	0/43.27	0/42.89
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/32 (0%)	0/36 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---

**STATISTICAL TESTS**

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LIFE TABLE	(e)	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

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TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Benign Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	47/50 (94%)	46/50 (92%)	47/50 (94%)	46/50 (92%)	37/50 (74%)
POLY-3 RATE (b)	47/49.1	46/48.61	47/48.57	46/48.46	37/46.5
POLY-3 PERCENT (g)	95.7%	94.6%	96.8%	94.9%	79.6%
TERMINAL (d)	32/33 (97%)	31/32 (97%)	32/32 (100%)	35/36 (97%)	26/31 (84%)
FIRST INCIDENCE	489	461	534	379	461

**STATISTICAL TESTS**

LIFE TABLE	P=0.050N*	P=0.551	P=0.486	P=0.324N	P=0.123N
POLY 3	P<0.001N**	P=0.596N	P=0.620	P=0.628N	P=0.009N**
POLY 1.5	P<0.001N**	P=0.567N	P=0.634	P=0.582N	P=0.007N**
POLY 6	P<0.001N**	P=0.618N	P=0.612	P=0.658N	P=0.015N*
LOGISTIC REGRESSION	P<0.001N**	P=0.576N	P=0.641	P=0.632N	P=0.010N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500N	P=0.661N	P=0.500N	P=0.006N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
 Time Report Requested: 10:38:19  
 First Dose M/F: 10/02/02 / 10/02/02  
 Lab: SRI

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Malignant Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	20/50 (40%)	30/50 (60%)	19/50 (38%)	18/50 (36%)	31/50 (62%)
POLY-3 RATE (b)	20/47.47	30/48.08	19/48.21	18/48.36	31/49.14
POLY-3 PERCENT (g)	42.1%	62.4%	39.4%	37.2%	63.1%
TERMINAL (d)	10/33 (30%)	18/32 (56%)	10/32 (31%)	8/36 (22%)	15/31 (48%)
FIRST INCIDENCE	575	387	454	379	461

**STATISTICAL TESTS**

LIFE TABLE	P=0.061	P=0.060	P=0.527N	P=0.404N	P=0.037*
POLY 3	P=0.057	P=0.034*	P=0.475N	P=0.389N	P=0.029*
POLY 1.5	P=0.052	P=0.035*	P=0.483N	P=0.400N	P=0.025*
POLY 6	P=0.066	P=0.032*	P=0.472N	P=0.377N	P=0.034*
LOGISTIC REGRESSION	P=0.066	P=0.038*	P=0.490N	P=0.337N	P=0.030*
COCH-ARM / FISHERS	P=0.049*	P=0.036*	P=0.500N	P=0.418N	P=0.022*
ORDER RESTRICTED	P=0.024*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033*	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium dichromate dihydrate (VI)  
 CAS Number: 7789-12-0

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

DOSE	Females				
	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L

**All Organs  
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#	#
OVERALL (a)	49/50 (98%)	48/50 (96%)	50/50 (100%)	49/50 (98%)	47/50 (94%)
POLY-3 RATE (b)	49/50	48/49.7	50/50	49/50	47/50
POLY-3 PERCENT (g)	98%	96.6%	100%	98%	94%
TERMINAL (d)	32/33 (97%)	31/32 (97%)	32/32 (100%)	35/36 (97%)	28/31 (90%)
FIRST INCIDENCE	489	387	454	379	461

**STATISTICAL TESTS**

LIFE TABLE	P=0.531	P=0.547	P=0.417	P=0.412N	P=0.511
POLY 3	P=0.126N	P=0.575N	P=0.500	P=0.760	P=0.306N
POLY 1.5	P=0.137N	P=0.539N	P=0.500	P=0.760	P=0.306N
POLY 6	P=0.109N	P=0.632N	P=0.500	P=0.760	P=0.306N
LOGISTIC REGRESSION	P=0.141N	P=0.497N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500	P=0.753N	P=0.309N
ORDER RESTRICTED	P=0.155N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.165N	(e)	(e)	(e)	(e)

TDMS No. 20114 - 07  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
Sodium dichromate dihydrate (VI)  
CAS Number: 7789-12-0

Date Report Requested: 10/04/2007  
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## LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (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 \*\*\*