

**TDMS No.** 96019 - 05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Water disinfection byproducts (Bromochloroacetic acid)  
**CAS Number:** 5589-96-8

**Date Report Reqsted:** 12/06/2007  
**Time Report Reqsted:** 09:56:07  
**First Dose M/F:** 09/26/01 / 09/26/01  
**Lab:** SRI

F1\_REV1\_R2

<b>C Number:</b>	C96019		
<b>Lock Date:</b>	07/14/2004		
<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>	1.9.1		

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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  
Kidney  
Liver  
Lung  
Pancreas  
Pituitary Gland  
Spleen  
Testes  
Thymus  
Thyroid Gland

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF Water disinfection byproducts (Bromochloroacetic acid)**

**MALE RATS**

<b><u>Organ</u></b>	<b><u>Morphology</u></b>
Intestine Large: Colon/Rectum	Adenoma
Islets, Pancreatic	Adenoma
Skin	Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous
	Histiocytoma
	Trichoepithelioma
All Organs	Mesothelioma: Benign, Malignant, NOS
	Mesothelioma: Malignant
	Benign Tumors

**FEMALE RATS**

<b><u>Organ</u></b>	<b><u>Morphology</u></b>
Clitoral/Preputial Gland	Adenoma
	Carcinoma or Adenoma
Intestine Large: Colon/Rectum	Adenoma
Liver	Hepatocellular Adenoma
Skin	Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous
	Histiocytoma
	Fibrosarcoma

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

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DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	9/50 (18%)	13/50 (26%)	8/50 (16%)	12/50 (24%)
POLY-3 RATE (b)	9/43.85	13/42.71	8/41.8	12/41.65
POLY-3 PERCENT (g)	20.5%	30.4%	19.1%	28.8%
TERMINAL (d)	8/31 (26%)	10/26 (39%)	3/25 (12%)	10/29 (35%)
FIRST INCIDENCE	504	668	555	717

**STATISTICAL TESTS**

LIFE TABLE	P=0.352	P=0.124	P=0.559	P=0.251
POLY 3	P=0.327	P=0.206	P=0.544N	P=0.260
POLY 1.5	P=0.346	P=0.221	P=0.529N	P=0.279
POLY 6	P=0.314	P=0.185	P=0.556N	P=0.245
LOGISTIC REGRESSION	P=0.342	P=0.188	P=0.533N	P=0.263
COCH-ARM / FISHERS	P=0.385	P=0.235	P=0.500N	P=0.312
ORDER RESTRICTED	P=0.293	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.307	(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	250 MG/L	500 MG/L	1000 MG/L

---

**Adrenal Medulla  
 Pheochromocytoma Malignant**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.18	2/42.75	1/40.58	1/42.23
POLY-3 PERCENT (g)	2.3%	4.7%	2.5%	2.4%
TERMINAL (d)	1/31 (3%)	0/26 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	618	646	521

**STATISTICAL TESTS**

LIFE TABLE	P=0.541N	P=0.474	P=0.727	P=0.746
POLY 3	P=0.540N	P=0.496	P=0.747	P=0.756
POLY 1.5	P=0.537N	P=0.499	P=0.752	P=0.757
POLY 6	P=0.542N	P=0.491	P=0.741	P=0.756
LOGISTIC REGRESSION	P=0.499N	P=0.501	P=0.757	P=0.743N
COCH-ARM / FISHERS	P=0.531N	P=0.500	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.594N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.597N	(e)	(e)	(e)

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

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DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	10/50 (20%)	14/50 (28%)	8/50 (16%)	13/50 (26%)
POLY-3 RATE (b)	10/43.85	14/43.1	8/41.8	13/42.29
POLY-3 PERCENT (g)	22.8%	32.5%	19.1%	30.7%
TERMINAL (d)	9/31 (29%)	10/26 (39%)	3/25 (12%)	10/29 (35%)
FIRST INCIDENCE	504	618	555	521

**STATISTICAL TESTS**

LIFE TABLE	P=0.364	P=0.129	P=0.554N	P=0.255
POLY 3	P=0.353	P=0.218	P=0.440N	P=0.277
POLY 1.5	P=0.367	P=0.231	P=0.426N	P=0.290
POLY 6	P=0.345	P=0.201	P=0.452N	P=0.267
LOGISTIC REGRESSION	P=0.356	P=0.200	P=0.435N	P=0.274
COCH-ARM / FISHERS	P=0.398	P=0.241	P=0.398N	P=0.318
ORDER RESTRICTED	P=0.314	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.327	(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	250 MG/L	500 MG/L	1000 MG/L

**Brain  
 Oligodendroglioma, Glioma, or Astrocytoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.18	0/42.12	2/41.04	1/42.48
POLY-3 PERCENT (g)	0%	0%	4.9%	2.4%
TERMINAL (d)	0/31 (0%)	0/26 (0%)	1/25 (4%)	0/29 (0%)
FIRST INCIDENCE	---	---	450	357

**STATISTICAL TESTS**

LIFE TABLE	P=0.244	(e)	P=0.214	P=0.504
POLY 3	P=0.243	(e)	P=0.226	P=0.497
POLY 1.5	P=0.243	(e)	P=0.230	P=0.498
POLY 6	P=0.246	(e)	P=0.220	P=0.496
LOGISTIC REGRESSION	P=0.341	(e)	P=0.280	P=0.528
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
ORDER RESTRICTED	P=0.159	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.165	(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	250 MG/L	500 MG/L	1000 MG/L

**Clitoral/Preputial Gland  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	7/49 (14%)	7/50 (14%)	8/49 (16%)
POLY-3 RATE (b)	4/43.18	7/42.64	7/41.24	8/41.55
POLY-3 PERCENT (g)	9.3%	16.4%	17%	19.3%
TERMINAL (d)	4/31 (13%)	4/25 (16%)	5/25 (20%)	4/29 (14%)
FIRST INCIDENCE	729 (T)	504	561	631

**STATISTICAL TESTS**

LIFE TABLE	P=0.174	P=0.182	P=0.164	P=0.157
POLY 3	P=0.153	P=0.252	P=0.233	P=0.156
POLY 1.5	P=0.156	P=0.254	P=0.243	P=0.158
POLY 6	P=0.156	P=0.245	P=0.222	P=0.159
LOGISTIC REGRESSION	P=0.157	P=0.248	P=0.219	P=0.147
COCH-ARM / FISHERS	P=0.170	P=0.251	P=0.262	P=0.168
ORDER RESTRICTED	P=0.156	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.164	(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	250 MG/L	500 MG/L	1000 MG/L

**Clitoral/Preputial Gland  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/49 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/43.85	1/41.19	0/40.28	0/40.81
POLY-3 PERCENT (g)	4.6%	2.4%	0%	0%
TERMINAL (d)	1/31 (3%)	0/25 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	504	713	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.112N	P=0.537N	P=0.271N	P=0.254N
POLY 3	P=0.105N	P=0.522N	P=0.256N	P=0.253N
POLY 1.5	P=0.104N	P=0.514N	P=0.249N	P=0.249N
POLY 6	P=0.105N	P=0.535N	P=0.266N	P=0.256N
LOGISTIC REGRESSION	P=0.093N	P=0.512N	P=0.202N	P=0.214N
COCH-ARM / FISHERS	P=0.102N	P=0.508N	P=0.247N	P=0.253N
ORDER RESTRICTED	P=0.083N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.096N	(e)	(e)	(e)

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

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DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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**Clitoral/Preputial Gland  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	5/50 (10%)	8/49 (16%)	7/50 (14%)	8/49 (16%)
POLY-3 RATE (b)	5/43.85	8/42.7	7/41.24	8/41.55
POLY-3 PERCENT (g)	11.4%	18.7%	17%	19.3%
TERMINAL (d)	4/31 (13%)	4/25 (16%)	5/25 (20%)	4/29 (14%)
FIRST INCIDENCE	504	504	561	631

**STATISTICAL TESTS**

LIFE TABLE	P=0.280	P=0.199	P=0.263	P=0.247
POLY 3	P=0.248	P=0.256	P=0.335	P=0.239
POLY 1.5	P=0.257	P=0.262	P=0.352	P=0.246
POLY 6	P=0.249	P=0.245	P=0.318	P=0.240
LOGISTIC REGRESSION	P=0.269	P=0.266	P=0.359	P=0.247
COCH-ARM / FISHERS	P=0.280	P=0.264	P=0.380	P=0.264
ORDER RESTRICTED	P=0.258	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.272	(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	250 MG/L	500 MG/L	1000 MG/L

**Intestine Large: Colon/Rectum  
 Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/43.18	2/42.12	0/40.28	4/42.33
POLY-3 PERCENT (g)	0%	4.8%	0%	9.5%
TERMINAL (d)	0/31 (0%)	2/26 (8%)	0/25 (0%)	3/29 (10%)
FIRST INCIDENCE	---	729 (T)	---	468

**STATISTICAL TESTS**

LIFE TABLE	P=0.035*	P=0.200	(e)	P=0.057
POLY 3	P=0.031*	P=0.231	(e)	P=0.057
POLY 1.5	P=0.031*	P=0.235	(e)	P=0.058
POLY 6	P=0.030*	P=0.225	(e)	P=0.057
LOGISTIC REGRESSION	P=0.033*	P=0.200	(e)	P=0.065
COCH-ARM / FISHERS	P=0.034*	P=0.247	(e)	P=0.059
ORDER RESTRICTED	P=0.011*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.013*	(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	250 MG/L	500 MG/L	1000 MG/L

---

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	4/50 (8%)	9/50 (18%)	3/50 (6%)
POLY-3 RATE (b)	3/43.18	4/42.45	9/41.68	3/42.39
POLY-3 PERCENT (g)	7%	9.4%	21.6%	7.1%
TERMINAL (d)	3/31 (10%)	2/26 (8%)	5/25 (20%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	679	549	434

**STATISTICAL TESTS**

LIFE TABLE	P=0.492	P=0.417	P=0.035*	P=0.635
POLY 3	P=0.502	P=0.491	P=0.049*	P=0.654
POLY 1.5	P=0.505	P=0.497	P=0.053	P=0.656
POLY 6	P=0.505	P=0.479	P=0.047*	P=0.654
LOGISTIC REGRESSION	P=0.503	P=0.459	P=0.050*	P=0.664
COCH-ARM / FISHERS	P=0.516	P=0.500	P=0.061	P=0.661N
ORDER RESTRICTED	P=0.216	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.225	(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	250 MG/L	500 MG/L	1000 MG/L

**Islets, Pancreatic  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.18	2/42.13	1/40.28	1/41.6
POLY-3 PERCENT (g)	4.6%	4.8%	2.5%	2.4%
TERMINAL (d)	2/31 (7%)	1/26 (4%)	1/25 (4%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	727	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.352N	P=0.633	P=0.575N	P=0.523N
POLY 3	P=0.350N	P=0.685	P=0.524N	P=0.513N
POLY 1.5	P=0.346N	P=0.691	P=0.515N	P=0.509N
POLY 6	P=0.352N	P=0.676	P=0.536N	P=0.516N
LOGISTIC REGRESSION	P=0.350N	P=0.639	P=0.575N	P=0.523N
COCH-ARM / FISHERS	P=0.337N	P=0.691N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.455N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.464N	(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	250 MG/L	500 MG/L	1000 MG/L

---

**Islets, Pancreatic  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	5/50 (10%)	6/50 (12%)	10/50 (20%)	4/50 (8%)
POLY-3 RATE (b)	5/43.18	6/42.46	10/41.68	4/42.39
POLY-3 PERCENT (g)	11.6%	14.1%	24%	9.4%
TERMINAL (d)	5/31 (16%)	3/26 (12%)	6/25 (24%)	3/29 (10%)
FIRST INCIDENCE	729 (T)	679	549	434

**STATISTICAL TESTS**

LIFE TABLE	P=0.485N	P=0.391	P=0.069	P=0.539N
POLY 3	P=0.472N	P=0.488	P=0.110	P=0.512N
POLY 1.5	P=0.469N	P=0.496	P=0.117	P=0.508N
POLY 6	P=0.469N	P=0.473	P=0.105	P=0.513N
LOGISTIC REGRESSION	P=0.482N	P=0.434	P=0.099	P=0.516N
COCH-ARM / FISHERS	P=0.457N	P=0.500	P=0.131	P=0.500N
ORDER RESTRICTED	P=0.278N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.287N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

Liver  
 Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	2/43.18	0/42.12	3/40.28	4/41.99
POLY-3 PERCENT (g)	4.6%	0%	7.5%	9.5%
TERMINAL (d)	2/31 (7%)	0/26 (0%)	3/25 (12%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	682

**STATISTICAL TESTS**

LIFE TABLE	P=0.114	P=0.277N	P=0.401	P=0.314
POLY 3	P=0.107	P=0.242N	P=0.468	P=0.324
POLY 1.5	P=0.108	P=0.239N	P=0.481	P=0.328
POLY 6	P=0.110	P=0.249N	P=0.453	P=0.323
LOGISTIC REGRESSION	P=0.106	(e)	P=0.401	P=0.316
COCH-ARM / FISHERS	P=0.113	P=0.247N	P=0.500	P=0.339
ORDER RESTRICTED	P=0.102	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.112	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

Lung  
 Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.18	1/42.12	0/40.28	1/41.72
POLY-3 PERCENT (g)	4.6%	2.4%	0%	2.4%
TERMINAL (d)	2/31 (7%)	1/26 (4%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	699

**STATISTICAL TESTS**

LIFE TABLE	P=0.383N	P=0.562N	P=0.286N	P=0.526N
POLY 3	P=0.373N	P=0.509N	P=0.253N	P=0.512N
POLY 1.5	P=0.371N	P=0.503N	P=0.247N	P=0.508N
POLY 6	P=0.373N	P=0.519N	P=0.260N	P=0.514N
LOGISTIC REGRESSION	P=0.379N	P=0.562N	(e)	P=0.517N
COCH-ARM / FISHERS	P=0.366N	P=0.500N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.238N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

---



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Lung  
 Alveolar/Bronchiolar Carcinoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/43.18	0/42.12	0/40.28	2/42.46
POLY-3 PERCENT (g)	2.3%	0%	0%	4.7%
TERMINAL (d)	1/31 (3%)	0/26 (0%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	---	---	380

**STATISTICAL TESTS**

LIFE TABLE	P=0.245	P=0.535N	P=0.543N	P=0.485
POLY 3	P=0.244	P=0.505N	P=0.514N	P=0.494
POLY 1.5	P=0.244	P=0.502N	P=0.508N	P=0.496
POLY 6	P=0.246	P=0.511N	P=0.520N	P=0.493
LOGISTIC REGRESSION	P=0.277	(e)	(e)	P=0.543
COCH-ARM / FISHERS	P=0.246	P=0.500N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.127	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.135	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	3/43.18	1/42.12	0/40.28	3/42.57
POLY-3 PERCENT (g)	7%	2.4%	0%	7.1%
TERMINAL (d)	3/31 (10%)	1/26 (4%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	380

**STATISTICAL TESTS**

LIFE TABLE	P=0.510	P=0.369N	P=0.160N	P=0.634
POLY 3	P=0.522	P=0.314N	P=0.131N	P=0.656
POLY 1.5	P=0.522	P=0.309N	P=0.126N	P=0.658
POLY 6	P=0.525	P=0.324N	P=0.137N	P=0.656
LOGISTIC REGRESSION	P=0.528	P=0.369N	(e)	P=0.653N
COCH-ARM / FISHERS	P=0.526	P=0.309N	P=0.121N	P=0.661N
ORDER RESTRICTED	P=0.290	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.297	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Mammary Gland  
 Carcinoma**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.18	0/42.12	0/40.28	0/41.6
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/26 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Mammary Gland  
 Fibroadenoma**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/43.41	4/42.46	3/40.85	4/41.6
POLY-3 PERCENT (g)	6.9%	9.4%	7.3%	9.6%
TERMINAL (d)	2/31 (7%)	2/26 (8%)	2/25 (8%)	4/29 (14%)
FIRST INCIDENCE	668	668	549	729 (T)

**STATISTICAL TESTS**

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LIFE TABLE	P=0.439	P=0.431	P=0.583	P=0.464
POLY 3	P=0.436	P=0.488	P=0.635	P=0.477
POLY 1.5	P=0.445	P=0.495	P=0.645	P=0.485
POLY 6	P=0.429	P=0.474	P=0.621	P=0.469
LOGISTIC REGRESSION	P=0.441	P=0.477	P=0.648	P=0.472
COCH-ARM / FISHERS	P=0.463	P=0.500	P=0.661N	P=0.500
ORDER RESTRICTED	P=0.516	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.523	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

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TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/43.41	4/42.46	3/40.85	4/41.6
POLY-3 PERCENT (g)	6.9%	9.4%	7.3%	9.6%
TERMINAL (d)	2/31 (7%)	2/26 (8%)	2/25 (8%)	4/29 (14%)
FIRST INCIDENCE	668	668	549	729 (T)

**STATISTICAL TESTS**

---

LIFE TABLE	P=0.439	P=0.431	P=0.583	P=0.464
POLY 3	P=0.436	P=0.488	P=0.635	P=0.477
POLY 1.5	P=0.445	P=0.495	P=0.645	P=0.485
POLY 6	P=0.429	P=0.474	P=0.621	P=0.469
LOGISTIC REGRESSION	P=0.441	P=0.477	P=0.648	P=0.472
COCH-ARM / FISHERS	P=0.463	P=0.500	P=0.661N	P=0.500
ORDER RESTRICTED	P=0.516	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.523	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Mesentery  
 Fibrosarcoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.18	2/43.13	0/40.28	0/41.6
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/31 (0%)	0/26 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	---	540	---	---

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**STATISTICAL TESTS**

LIFE TABLE	P=0.415N	P=0.244	(e)	(e)
POLY 3	P=0.416N	P=0.237	(e)	(e)
POLY 1.5	P=0.411N	P=0.238	(e)	(e)
POLY 6	P=0.422N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	P=0.349N	P=0.172	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.253N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.266N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Pancreas  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.6	0/42.12	1/40.28	1/41.6
POLY-3 PERCENT (g)	4.6%	0%	2.5%	2.4%
TERMINAL (d)	1/31 (3%)	0/26 (0%)	1/25 (4%)	1/29 (3%)
FIRST INCIDENCE	609	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.511N	P=0.259N	P=0.561N	P=0.518N
POLY 3	P=0.505N	P=0.245N	P=0.528N	P=0.516N
POLY 1.5	P=0.504N	P=0.240N	P=0.517N	P=0.511N
POLY 6	P=0.503N	P=0.253N	P=0.541N	P=0.522N
LOGISTIC REGRESSION	P=0.510N	P=0.237N	P=0.512N	P=0.505N
COCH-ARM / FISHERS	P=0.500N	P=0.247N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.291N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.304N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	23/48 (48%)	30/50 (60%)	23/50 (46%)	21/50 (42%)
POLY-3 RATE (b)	23/44.24	30/46.38	23/43.88	21/43.76
POLY-3 PERCENT (g)	52%	64.7%	52.4%	48%
TERMINAL (d)	16/31 (52%)	17/26 (65%)	13/25 (52%)	14/29 (48%)
FIRST INCIDENCE	337	504	575	510

**STATISTICAL TESTS**

LIFE TABLE	P=0.286N	P=0.055	P=0.298	P=0.519N
POLY 3	P=0.226N	P=0.149	P=0.570	P=0.434N
POLY 1.5	P=0.204N	P=0.153	P=0.575N	P=0.409N
POLY 6	P=0.237N	P=0.145	P=0.564	P=0.450N
LOGISTIC REGRESSION	P=0.181N	P=0.157	P=0.551N	P=0.381N
COCH-ARM / FISHERS	P=0.157N	P=0.159	P=0.505N	P=0.350N
ORDER RESTRICTED	P=0.247N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.256N	(e)	(e)	(e)

---



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	23/48 (48%)	30/50 (60%)	24/50 (48%)	21/50 (42%)
POLY-3 RATE (b)	23/44.24	30/46.38	24/43.88	21/43.76
POLY-3 PERCENT (g)	52%	64.7%	54.7%	48%
TERMINAL (d)	16/31 (52%)	17/26 (65%)	14/25 (56%)	14/29 (48%)
FIRST INCIDENCE	337	504	575	510

**STATISTICAL TESTS**

LIFE TABLE	P=0.294N	P=0.055	P=0.233	P=0.519N
POLY 3	P=0.235N	P=0.149	P=0.484	P=0.434N
POLY 1.5	P=0.212N	P=0.153	P=0.509	P=0.409N
POLY 6	P=0.247N	P=0.145	P=0.474	P=0.450N
LOGISTIC REGRESSION	P=0.188N	P=0.157	P=0.526	P=0.381N
COCH-ARM / FISHERS	P=0.162N	P=0.159	P=0.577	P=0.350N
ORDER RESTRICTED	P=0.246N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.255N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Skin  
 Basal Cell Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.18	1/42.12	2/40.62	1/41.6
POLY-3 PERCENT (g)	0%	2.4%	4.9%	2.4%
TERMINAL (d)	0/31 (0%)	1/26 (4%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	---	729 (T)	674	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.360	P=0.465	P=0.211	P=0.487
POLY 3	P=0.351	P=0.495	P=0.223	P=0.493
POLY 1.5	P=0.356	P=0.498	P=0.229	P=0.495
POLY 6	P=0.349	P=0.489	P=0.218	P=0.491
LOGISTIC REGRESSION	P=0.356	P=0.465	P=0.231	P=0.487
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
ORDER RESTRICTED	P=0.212	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.224	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

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	Males			
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

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TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/43.29	1/42.12	2/40.62	1/41.6
POLY-3 PERCENT (g)	6.9%	2.4%	4.9%	2.4%
TERMINAL (d)	2/31 (7%)	1/26 (4%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	701	729 (T)	674	729 (T)

**STATISTICAL TESTS**

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LIFE TABLE	P=0.301N	P=0.365N	P=0.579N	P=0.335N
POLY 3	P=0.289N	P=0.315N	P=0.529N	P=0.319N
POLY 1.5	P=0.287N	P=0.309N	P=0.518N	P=0.315N
POLY 6	P=0.288N	P=0.326N	P=0.541N	P=0.323N
LOGISTIC REGRESSION	P=0.294N	P=0.339N	P=0.538N	P=0.323N
COCH-ARM / FISHERS	P=0.279N	P=0.309N	P=0.500N	P=0.309N
ORDER RESTRICTED	P=0.234N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/43.29	1/42.12	2/40.62	1/41.6
POLY-3 PERCENT (g)	6.9%	2.4%	4.9%	2.4%
TERMINAL (d)	2/31 (7%)	1/26 (4%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	701	729 (T)	674	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.301N	P=0.365N	P=0.579N	P=0.335N
POLY 3	P=0.289N	P=0.315N	P=0.529N	P=0.319N
POLY 1.5	P=0.287N	P=0.309N	P=0.518N	P=0.315N
POLY 6	P=0.288N	P=0.326N	P=0.541N	P=0.323N
LOGISTIC REGRESSION	P=0.294N	P=0.339N	P=0.538N	P=0.323N
COCH-ARM / FISHERS	P=0.279N	P=0.309N	P=0.500N	P=0.309N
ORDER RESTRICTED	P=0.234N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 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)	6/50 (12%)	6/50 (12%)	8/50 (16%)	3/50 (6%)
POLY-3 RATE (b)	6/43.29	6/42.93	8/41.66	3/41.6
POLY-3 PERCENT (g)	13.9%	14%	19.2%	7.2%
TERMINAL (d)	5/31 (16%)	4/26 (15%)	3/25 (12%)	3/29 (10%)
FIRST INCIDENCE	701	549	561	729 (T)

---

**STATISTICAL TESTS**

LIFE TABLE	P=0.248N	P=0.518	P=0.268	P=0.278N
POLY 3	P=0.240N	P=0.616	P=0.355	P=0.261N
POLY 1.5	P=0.233N	P=0.621	P=0.366	P=0.255N
POLY 6	P=0.243N	P=0.604	P=0.348	P=0.265N
LOGISTIC REGRESSION	P=0.235N	P=0.595	P=0.337	P=0.268N
COCH-ARM / FISHERS	P=0.216N	P=0.620N	P=0.387	P=0.243N
ORDER RESTRICTED	P=0.200N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.213N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
<b>Skin Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	7/50 (14%)	7/50 (14%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	7/43.51	7/42.9	2/40.63	4/41.78
POLY-3 PERCENT (g)	16.1%	16.3%	4.9%	9.6%
TERMINAL (d)	6/31 (19%)	3/26 (12%)	1/25 (4%)	3/29 (10%)
FIRST INCIDENCE	637	596	631	682
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.156N	P=0.499	P=0.135N	P=0.296N
POLY 3	P=0.145N	P=0.603	P=0.095N	P=0.283N
POLY 1.5	P=0.141N	P=0.610	P=0.089N	P=0.276N
POLY 6	P=0.147N	P=0.589	P=0.102N	P=0.288N
LOGISTIC REGRESSION	P=0.147N	P=0.584	P=0.102N	P=0.286N
COCH-ARM / FISHERS	P=0.132N	P=0.613N	P=0.080N	P=0.262N
ORDER RESTRICTED	P=0.153N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.164N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

---

TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	9/50 (18%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	8/43.95	9/43.01	2/40.63	4/41.78
POLY-3 PERCENT (g)	18.2%	20.9%	4.9%	9.6%
TERMINAL (d)	6/31 (19%)	4/26 (15%)	1/25 (4%)	3/29 (10%)
FIRST INCIDENCE	601	596	631	682

**STATISTICAL TESTS**

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LIFE TABLE	P=0.081N	P=0.382	P=0.088N	P=0.211N
POLY 3	P=0.071N	P=0.480	P=0.058N	P=0.200N
POLY 1.5	P=0.067N	P=0.492	P=0.053N	P=0.192N
POLY 6	P=0.074N	P=0.458	P=0.065N	P=0.208N
LOGISTIC REGRESSION	P=0.071N	P=0.477	P=0.057N	P=0.195N
COCH-ARM / FISHERS	P=0.062N	P=0.500	P=0.046N*	P=0.178N
ORDER RESTRICTED	P=0.067N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.078N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Skin  
 Fibrosarcoma**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.62	3/42.3	0/40.28	0/41.6
POLY-3 PERCENT (g)	2.3%	7.1%	0%	0%
TERMINAL (d)	0/31 (0%)	1/26 (4%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	601	702	---	---

**STATISTICAL TESTS**

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LIFE TABLE	P=0.170N	P=0.270	P=0.523N	P=0.514N
POLY 3	P=0.163N	P=0.294	P=0.516N	P=0.509N
POLY 1.5	P=0.158N	P=0.300	P=0.510N	P=0.506N
POLY 6	P=0.169N	P=0.282	P=0.524N	P=0.513N
LOGISTIC REGRESSION	P=0.156N	P=0.304	P=0.463N	P=0.471N
COCH-ARM / FISHERS	P=0.153N	P=0.309	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.116N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.128N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Skin  
 Keratoacanthoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.18	0/42.12	2/40.78	1/41.6
POLY-3 PERCENT (g)	2.3%	0%	4.9%	2.4%
TERMINAL (d)	1/31 (3%)	0/26 (0%)	0/25 (0%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	---	646	729 (T)

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**STATISTICAL TESTS**

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LIFE TABLE	P=0.491	P=0.535N	P=0.449	P=0.747
POLY 3	P=0.489	P=0.505N	P=0.480	P=0.753
POLY 1.5	P=0.491	P=0.502N	P=0.487	P=0.755
POLY 6	P=0.491	P=0.511N	P=0.472	P=0.751
LOGISTIC REGRESSION	P=0.491	(e)	P=0.492	P=0.747
COCH-ARM / FISHERS	P=0.500	P=0.500N	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.363	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.375	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Skin  
 Squamous Cell Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/43.29	5/42.93	4/40.82	2/41.6
POLY-3 PERCENT (g)	6.9%	11.7%	9.8%	4.8%
TERMINAL (d)	2/31 (7%)	3/26 (12%)	3/25 (12%)	2/29 (7%)
FIRST INCIDENCE	701	549	561	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.347N	P=0.293	P=0.400	P=0.535N
POLY 3	P=0.345N	P=0.351	P=0.468	P=0.518N
POLY 1.5	P=0.337N	P=0.356	P=0.480	P=0.512N
POLY 6	P=0.351N	P=0.340	P=0.453	P=0.524N
LOGISTIC REGRESSION	P=0.336N	P=0.349	P=0.462	P=0.525N
COCH-ARM / FISHERS	P=0.320N	P=0.357	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.349N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.362N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/43.29	5/42.93	6/41.32	2/41.6
POLY-3 PERCENT (g)	9.2%	11.7%	14.5%	4.8%
TERMINAL (d)	3/31 (10%)	3/26 (12%)	3/25 (12%)	2/29 (7%)
FIRST INCIDENCE	701	549	561	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.289N	P=0.419	P=0.271	P=0.373N
POLY 3	P=0.285N	P=0.495	P=0.339	P=0.355N
POLY 1.5	P=0.278N	P=0.500	P=0.350	P=0.349N
POLY 6	P=0.289N	P=0.483	P=0.328	P=0.360N
LOGISTIC REGRESSION	P=0.276N	P=0.488	P=0.335	P=0.361N
COCH-ARM / FISHERS	P=0.260N	P=0.500	P=0.370	P=0.339N
ORDER RESTRICTED	P=0.225N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.237N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

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

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TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/43.29	5/42.93	6/41.32	2/41.6
POLY-3 PERCENT (g)	9.2%	11.7%	14.5%	4.8%
TERMINAL (d)	3/31 (10%)	3/26 (12%)	3/25 (12%)	2/29 (7%)
FIRST INCIDENCE	701	549	561	729 (T)

**STATISTICAL TESTS**

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LIFE TABLE	P=0.289N	P=0.419	P=0.271	P=0.373N
POLY 3	P=0.285N	P=0.495	P=0.339	P=0.355N
POLY 1.5	P=0.278N	P=0.500	P=0.350	P=0.349N
POLY 6	P=0.289N	P=0.483	P=0.328	P=0.360N
LOGISTIC REGRESSION	P=0.276N	P=0.488	P=0.335	P=0.361N
COCH-ARM / FISHERS	P=0.260N	P=0.500	P=0.370	P=0.339N
ORDER RESTRICTED	P=0.225N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.237N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

**Skin**  
**Trichoepithelioma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.29	0/42.12	0/40.28	0/41.6
POLY-3 PERCENT (g)	6.9%	0%	0%	0%
TERMINAL (d)	2/31 (7%)	0/26 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	701	---	---	---

**STATISTICAL TESTS**

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LIFE TABLE	P=0.056N	P=0.152N	P=0.162N	P=0.138N
POLY 3	P=0.045N*	P=0.123N	P=0.132N	P=0.126N
POLY 1.5	P=0.045N*	P=0.121N	P=0.127N	P=0.123N
POLY 6	P=0.044N*	P=0.129N	P=0.138N	P=0.127N
LOGISTIC REGRESSION	P=0.052N	P=0.135N	P=0.143N	P=0.129N
COCH-ARM / FISHERS	P=0.047N*	P=0.121N	P=0.121N	P=0.121N
ORDER RESTRICTED	P=0.009N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012N*	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Spleen  
 Fibrosarcoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.18	3/42.75	0/40.28	0/41.6
POLY-3 PERCENT (g)	0%	7%	0%	0%
TERMINAL (d)	0/31 (0%)	2/26 (8%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	---	525	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.328N	P=0.104	(e)	(e)
POLY 3	P=0.324N	P=0.116	(e)	(e)
POLY 1.5	P=0.318N	P=0.118	(e)	(e)
POLY 6	P=0.331N	P=0.112	(e)	(e)
LOGISTIC REGRESSION	P=0.303N	P=0.119	(e)	(e)
COCH-ARM / FISHERS	P=0.311N	P=0.121	(e)	(e)
ORDER RESTRICTED	P=0.168N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.179N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

Testes  
 Adenoma

**TUMOR RATES**

OVERALL (a)	46/50 (92%)	46/50 (92%)	44/50 (88%)	46/50 (92%)
POLY-3 RATE (b)	46/47.61	46/47.89	44/47.23	46/47.91
POLY-3 PERCENT (g)	96.6%	96.1%	93.2%	96%
TERMINAL (d)	31/31 (100%)	26/26 (100%)	25/25 (100%)	28/29 (97%)
FIRST INCIDENCE	525	525	366	434

**STATISTICAL TESTS**

LIFE TABLE	P=0.430	P=0.192	P=0.206	P=0.382
POLY 3	P=0.519N	P=0.707N	P=0.352N	P=0.682N
POLY 1.5	P=0.551N	P=0.648N	P=0.351N	P=0.687N
POLY 6	P=0.403N	P=0.882N	P=0.402N	P=0.623N
LOGISTIC REGRESSION	P=0.337	P=0.659N	P=0.584N	P=0.431
COCH-ARM / FISHERS	P=0.533N	P=0.643N	P=0.370N	P=0.643N
ORDER RESTRICTED	P=0.439N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.444N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	7/50 (14%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	3/43.18	7/42.67	7/40.57	8/41.95
POLY-3 PERCENT (g)	7%	16.4%	17.3%	19.1%
TERMINAL (d)	3/31 (10%)	4/26 (15%)	5/25 (20%)	5/29 (17%)
FIRST INCIDENCE	729 (T)	609	652	682

**STATISTICAL TESTS**

LIFE TABLE	P=0.113	P=0.108	P=0.092	P=0.085
POLY 3	P=0.099	P=0.150	P=0.131	P=0.087
POLY 1.5	P=0.104	P=0.155	P=0.141	P=0.091
POLY 6	P=0.097	P=0.142	P=0.120	P=0.086
LOGISTIC REGRESSION	P=0.100	P=0.132	P=0.105	P=0.082
COCH-ARM / FISHERS	P=0.117	P=0.159	P=0.159	P=0.100
ORDER RESTRICTED	P=0.083	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.091	(e)	(e)	(e)

---



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	8/50 (16%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	4/43.18	8/43.06	7/40.57	8/41.95
POLY-3 PERCENT (g)	9.3%	18.6%	17.3%	19.1%
TERMINAL (d)	4/31 (13%)	4/26 (15%)	5/25 (20%)	5/29 (17%)
FIRST INCIDENCE	729 (T)	609	652	682

**STATISTICAL TESTS**

LIFE TABLE	P=0.202	P=0.123	P=0.160	P=0.152
POLY 3	P=0.184	P=0.173	P=0.224	P=0.160
POLY 1.5	P=0.192	P=0.177	P=0.238	P=0.166
POLY 6	P=0.181	P=0.166	P=0.208	P=0.158
LOGISTIC REGRESSION	P=0.186	P=0.157	P=0.183	P=0.149
COCH-ARM / FISHERS	P=0.211	P=0.178	P=0.262	P=0.178
ORDER RESTRICTED	P=0.166	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.175	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Thyroid Gland: Follicular Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/43.18	2/42.19	1/40.28	2/41.6
POLY-3 PERCENT (g)	4.6%	4.7%	2.5%	4.8%
TERMINAL (d)	2/31 (7%)	1/26 (4%)	1/25 (4%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	713	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.590N	P=0.634	P=0.575N	P=0.672
POLY 3	P=0.590N	P=0.686	P=0.524N	P=0.681
POLY 1.5	P=0.586N	P=0.691	P=0.515N	P=0.685
POLY 6	P=0.593N	P=0.677	P=0.536N	P=0.678
LOGISTIC REGRESSION	P=0.592N	P=0.654	P=0.575N	P=0.672
COCH-ARM / FISHERS	P=0.577N	P=0.691N	P=0.500N	P=0.691N
ORDER RESTRICTED	P=0.633N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.635N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/43.18	2/42.19	2/40.28	2/41.6
POLY-3 PERCENT (g)	7%	4.7%	5%	4.8%
TERMINAL (d)	3/31 (10%)	1/26 (4%)	2/25 (8%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	713	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.449N	P=0.576N	P=0.599N	P=0.531N
POLY 3	P=0.446N	P=0.511N	P=0.532N	P=0.517N
POLY 1.5	P=0.442N	P=0.504N	P=0.519N	P=0.511N
POLY 6	P=0.447N	P=0.523N	P=0.547N	P=0.521N
LOGISTIC REGRESSION	P=0.450N	P=0.558N	P=0.599N	P=0.531N
COCH-ARM / FISHERS	P=0.431N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.524N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.530N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Zymbal's Gland  
 Carcinoma or Adenoma**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.51	1/42.12	1/41.04	0/41.6
POLY-3 PERCENT (g)	2.3%	2.4%	2.4%	0%
TERMINAL (d)	0/31 (0%)	1/26 (4%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	637	729 (T)	450	---

**STATISTICAL TESTS**

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LIFE TABLE	P=0.323N	P=0.735	P=0.746	P=0.505N
POLY 3	P=0.322N	P=0.754	P=0.748	P=0.509N
POLY 1.5	P=0.319N	P=0.758	P=0.753	P=0.506N
POLY 6	P=0.324N	P=0.746	P=0.741	P=0.512N
LOGISTIC REGRESSION	P=0.268N	P=0.762N	P=0.700N	P=0.485N
COCH-ARM / FISHERS	P=0.311N	P=0.753N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.325N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.340N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

---

TUMOR RATES	#	#	#	#
OVERALL (a)	21/50 (42%)	23/50 (46%)	19/50 (38%)	21/50 (42%)
POLY-3 RATE (b)	21/46.76	23/45.4	19/44.48	21/44.44
POLY-3 PERCENT (g)	44.9%	50.7%	42.7%	47.3%
TERMINAL (d)	9/31 (29%)	11/26 (42%)	6/25 (24%)	11/29 (38%)
FIRST INCIDENCE	525	549	366	434

---

**STATISTICAL TESTS**

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LIFE TABLE	P=0.519N	P=0.281	P=0.502	P=0.489
POLY 3	P=0.530	P=0.364	P=0.500N	P=0.494
POLY 1.5	P=0.518N	P=0.394	P=0.466N	P=0.527
POLY 6	P=0.501	P=0.320	P=0.544N	P=0.461
LOGISTIC REGRESSION	P=0.470N	P=0.420	P=0.394N	P=0.570
COCH-ARM / FISHERS	P=0.461N	P=0.420	P=0.419N	P=0.580N
ORDER RESTRICTED	P=0.615N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.619N	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

---

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	10/50 (20%)	6/50 (12%)
POLY-3 RATE (b)	1/43.6	5/42.93	10/42.2	6/42.8
POLY-3 PERCENT (g)	2.3%	11.7%	23.7%	14%
TERMINAL (d)	0/31 (0%)	2/26 (8%)	5/25 (20%)	2/29 (7%)
FIRST INCIDENCE	608	555	479	556

**STATISTICAL TESTS**

---

LIFE TABLE	P=0.076	P=0.089	P=0.003**	P=0.059
POLY 3	P=0.062	P=0.097	P=0.003**	P=0.052
POLY 1.5	P=0.064	P=0.100	P=0.003**	P=0.053
POLY 6	P=0.064	P=0.091	P=0.003**	P=0.052
LOGISTIC REGRESSION	P=0.077	P=0.103	P=0.006**	P=0.063
COCH-ARM / FISHERS	P=0.073	P=0.102	P=0.004**	P=0.056
ORDER RESTRICTED	P=0.013*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.015*	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs  
 Mesothelioma: Malignant**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	10/50 (20%)	6/50 (12%)
POLY-3 RATE (b)	1/43.6	5/42.93	10/42.2	6/42.8
POLY-3 PERCENT (g)	2.3%	11.7%	23.7%	14%
TERMINAL (d)	0/31 (0%)	2/26 (8%)	5/25 (20%)	2/29 (7%)
FIRST INCIDENCE	608	555	479	556

**STATISTICAL TESTS**

---

LIFE TABLE	P=0.076	P=0.089	P=0.003**	P=0.059
POLY 3	P=0.062	P=0.097	P=0.003**	P=0.052
POLY 1.5	P=0.064	P=0.100	P=0.003**	P=0.053
POLY 6	P=0.064	P=0.091	P=0.003**	P=0.052
LOGISTIC REGRESSION	P=0.077	P=0.103	P=0.006**	P=0.063
COCH-ARM / FISHERS	P=0.073	P=0.102	P=0.004**	P=0.056
ORDER RESTRICTED	P=0.013*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.015*	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs  
 Benign Tumors**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	50/50	50/50	49/49.09	48/48.26
POLY-3 PERCENT (g)	100%	100%	99.8%	99.5%
TERMINAL (d)	31/31 (100%)	26/26 (100%)	25/25 (100%)	29/29 (100%)
FIRST INCIDENCE	337	504	366	434

**STATISTICAL TESTS**

---

LIFE TABLE	P=0.510N	(e)	P=0.172	P=0.511
POLY 3	P=0.892N	(e)	P=1.000N	P=1.000N
POLY 1.5	P=0.205N	(e)	P=0.992N	P=0.703N
POLY 6	P=1.000N	(e)	P=1.000N	P=1.000N
LOGISTIC REGRESSION	P=0.058N	(e)	(e)	P=0.254N
COCH-ARM / FISHERS	P=0.070N	(e)	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.048N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.056N	(e)	(e)	(e)

---



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

	Males			
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs**  
**Malignant Tumors**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	33/50 (66%)	33/50 (66%)	31/50 (62%)
POLY-3 RATE (b)	27/47.43	33/47.85	33/48.15	31/48.83
POLY-3 PERCENT (g)	56.9%	69%	68.5%	63.5%
TERMINAL (d)	14/31 (45%)	14/26 (54%)	13/25 (52%)	13/29 (45%)
FIRST INCIDENCE	504	525	321	357

**STATISTICAL TESTS**

---

LIFE TABLE	P=0.308	P=0.109	P=0.082	P=0.253
POLY 3	P=0.381	P=0.153	P=0.164	P=0.326
POLY 1.5	P=0.356	P=0.157	P=0.164	P=0.307
POLY 6	P=0.410	P=0.147	P=0.156	P=0.347
LOGISTIC REGRESSION	P=0.359	P=0.158	P=0.199	P=0.313
COCH-ARM / FISHERS	P=0.311	P=0.154	P=0.154	P=0.272
ORDER RESTRICTED	P=0.234	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.244	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Males			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs  
 Malignant and Benign Tumors**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	50/50	50/50	50/50	50/50
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	31/31 (100%)	26/26 (100%)	25/25 (100%)	29/29 (100%)
FIRST INCIDENCE	337	504	321	357

**STATISTICAL TESTS**

---

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	2/49 (4%)	1/47 (2%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	2/43.14	1/40.69	4/45.48	5/45.35
POLY-3 PERCENT (g)	4.6%	2.5%	8.8%	11%
TERMINAL (d)	2/34 (6%)	0/29 (0%)	3/37 (8%)	3/35 (9%)
FIRST INCIDENCE	729 (T)	699	709	692

**STATISTICAL TESTS**

LIFE TABLE	P=0.103	P=0.544N	P=0.381	P=0.233
POLY 3	P=0.097	P=0.520N	P=0.362	P=0.236
POLY 1.5	P=0.092	P=0.517N	P=0.353	P=0.231
POLY 6	P=0.103	P=0.527N	P=0.371	P=0.242
LOGISTIC REGRESSION	P=0.101	P=0.535N	P=0.376	P=0.238
COCH-ARM / FISHERS	P=0.088	P=0.516N	P=0.349	P=0.226
ORDER RESTRICTED	P=0.124	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.137	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

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**Adrenal Medulla  
 Pheochromocytoma Malignant**

**TUMOR RATES**

OVERALL (a)	2/49 (4%)	1/47 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.14	1/40.98	0/45.4	0/45.15
POLY-3 PERCENT (g)	4.6%	2.4%	0%	0%
TERMINAL (d)	2/34 (6%)	0/29 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	729 (T)	610	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.093N	P=0.539N	P=0.220N	P=0.232N
POLY 3	P=0.095N	P=0.518N	P=0.226N	P=0.227N
POLY 1.5	P=0.096N	P=0.516N	P=0.230N	P=0.230N
POLY 6	P=0.094N	P=0.523N	P=0.222N	P=0.224N
LOGISTIC REGRESSION	P=0.097N	P=0.515N	(e)	(e)
COCH-ARM / FISHERS	P=0.097N	P=0.516N	P=0.242N	P=0.242N
ORDER RESTRICTED	P=0.067N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.077N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	4/49 (8%)	2/47 (4%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	4/43.14	2/41.1	4/45.48	6/45.35
POLY-3 PERCENT (g)	9.3%	4.9%	8.8%	13.2%
TERMINAL (d)	4/34 (12%)	0/29 (0%)	3/37 (8%)	4/35 (11%)
FIRST INCIDENCE	729 (T)	610	709	692

**STATISTICAL TESTS**

LIFE TABLE	P=0.234	P=0.395N	P=0.593N	P=0.390
POLY 3	P=0.221	P=0.359N	P=0.614N	P=0.401
POLY 1.5	P=0.213	P=0.357N	P=0.625N	P=0.392
POLY 6	P=0.231	P=0.365N	P=0.603N	P=0.410
LOGISTIC REGRESSION	P=0.227	P=0.363N	P=0.595N	P=0.402
COCH-ARM / FISHERS	P=0.206	P=0.359N	P=0.631N	P=0.383
ORDER RESTRICTED	P=0.251	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.266	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Brain  
 Oligodendroglioma, Glioma, or Astrocytoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Clitoral/Preputial Gland  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	17/50 (34%)	11/49 (22%)	8/50 (16%)	12/47 (26%)
POLY-3 RATE (b)	17/44.32	11/42.63	8/45.63	12/43.1
POLY-3 PERCENT (g)	38.4%	25.8%	17.5%	27.9%
TERMINAL (d)	15/34 (44%)	8/30 (27%)	7/37 (19%)	9/33 (27%)
FIRST INCIDENCE	505	618	668	618

**STATISTICAL TESTS**

LIFE TABLE	P=0.160N	P=0.217N	P=0.018N*	P=0.201N
POLY 3	P=0.189N	P=0.150N	P=0.022N*	P=0.205N
POLY 1.5	P=0.209N	P=0.147N	P=0.026N*	P=0.225N
POLY 6	P=0.168N	P=0.158N	P=0.018N*	P=0.184N
LOGISTIC REGRESSION	P=0.183N	P=0.161N	P=0.021N*	P=0.210N
COCH-ARM / FISHERS	P=0.230N	P=0.146N	P=0.032N*	P=0.246N
ORDER RESTRICTED	P=0.068N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.072N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Clitoral/Preputial Gland  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	1/47 (2%)
POLY-3 RATE (b)	0/43.47	2/42.07	0/45.4	1/42.47
POLY-3 PERCENT (g)	0%	4.8%	0%	2.4%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	679	---	660

**STATISTICAL TESTS**

LIFE TABLE	P=0.553	P=0.226	(e)	P=0.514
POLY 3	P=0.538	P=0.230	(e)	P=0.495
POLY 1.5	P=0.532	P=0.232	(e)	P=0.492
POLY 6	P=0.544	P=0.226	(e)	P=0.499
LOGISTIC REGRESSION	P=0.525	P=0.229	(e)	P=0.486
COCH-ARM / FISHERS	P=0.525	P=0.242	(e)	P=0.485
ORDER RESTRICTED	P=0.320	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.326	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

**Clitoral/Preputial Gland  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	17/50 (34%)	13/49 (27%)	8/50 (16%)	13/47 (28%)
POLY-3 RATE (b)	17/44.32	13/42.82	8/45.63	13/43.35
POLY-3 PERCENT (g)	38.4%	30.4%	17.5%	30%
TERMINAL (d)	15/34 (44%)	9/30 (30%)	7/37 (19%)	9/33 (27%)
FIRST INCIDENCE	505	618	668	618

**STATISTICAL TESTS**

LIFE TABLE	P=0.186N	P=0.379N	P=0.018N*	P=0.270N
POLY 3	P=0.217N	P=0.286N	P=0.022N*	P=0.273N
POLY 1.5	P=0.239N	P=0.281N	P=0.026N*	P=0.298N
POLY 6	P=0.191N	P=0.296N	P=0.018N*	P=0.244N
LOGISTIC REGRESSION	P=0.216N	P=0.303N	P=0.021N*	P=0.288N
COCH-ARM / FISHERS	P=0.264N	P=0.278N	P=0.032N*	P=0.325N
ORDER RESTRICTED	P=0.092N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.096N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

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**Intestine Large: Colon/Rectum  
 Adenoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	0/43.47	0/42.88	3/45.4	7/45.3
POLY-3 PERCENT (g)	0%	0%	6.6%	15.5%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	3/37 (8%)	6/35 (17%)
FIRST INCIDENCE	---	---	729 (T)	692

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**STATISTICAL TESTS**

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LIFE TABLE	P<0.001**	(e)	P=0.136	P=0.011*
POLY 3	P<0.001**	(e)	P=0.127	P=0.009**
POLY 1.5	P<0.001**	(e)	P=0.122	P=0.008**
POLY 6	P<0.001**	(e)	P=0.131	P=0.009**
LOGISTIC REGRESSION	P<0.001**	(e)	P=0.136	P=0.011*
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.121	P=0.006**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/42.8	1/42.88	1/45.63	2/45.15
POLY-3 PERCENT (g)	7%	2.3%	2.2%	4.4%
TERMINAL (d)	3/34 (9%)	1/31 (3%)	0/37 (0%)	2/35 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	668	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.447N	P=0.338N	P=0.282N	P=0.487N
POLY 3	P=0.454N	P=0.304N	P=0.283N	P=0.476N
POLY 1.5	P=0.461N	P=0.301N	P=0.291N	P=0.483N
POLY 6	P=0.445N	P=0.312N	P=0.275N	P=0.470N
LOGISTIC REGRESSION	P=0.440N	P=0.338N	P=0.283N	P=0.487N
COCH-ARM / FISHERS	P=0.468N	P=0.301N	P=0.301N	P=0.490N
ORDER RESTRICTED	P=0.267N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.280N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Islets, Pancreatic  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/42.8	0/42.88	0/45.4	1/45.15
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	1/35 (3%)
FIRST INCIDENCE	---	---	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.207	(e)	(e)	P=0.506
POLY 3	P=0.206	(e)	(e)	P=0.511
POLY 1.5	P=0.203	(e)	(e)	P=0.508
POLY 6	P=0.209	(e)	(e)	P=0.513
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.506
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.505
ORDER RESTRICTED	P=0.128	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.139	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Islets, Pancreatic  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/42.8	1/42.88	1/45.63	3/45.15
POLY-3 PERCENT (g)	7%	2.3%	2.2%	6.6%
TERMINAL (d)	3/34 (9%)	1/31 (3%)	0/37 (0%)	3/35 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	668	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.530	P=0.338N	P=0.282N	P=0.651N
POLY 3	P=0.524	P=0.304N	P=0.283N	P=0.638N
POLY 1.5	P=0.516	P=0.301N	P=0.291N	P=0.645N
POLY 6	P=0.534	P=0.312N	P=0.275N	P=0.633N
LOGISTIC REGRESSION	P=0.537	P=0.338N	P=0.283N	P=0.651N
COCH-ARM / FISHERS	P=0.507	P=0.301N	P=0.301N	P=0.651N
ORDER RESTRICTED	P=0.370N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.382N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

Liver  
 Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	3/45.15
POLY-3 PERCENT (g)	0%	0%	0%	6.6%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	3/35 (9%)
FIRST INCIDENCE	---	---	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.013*	(e)	(e)	P=0.126
POLY 3	P=0.012*	(e)	(e)	P=0.125
POLY 1.5	P=0.011*	(e)	(e)	P=0.122
POLY 6	P=0.012*	(e)	(e)	P=0.128
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.126
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.009**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012*	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

Lung  
 Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/43.47	0/42.88	2/45.4	2/45.15
POLY-3 PERCENT (g)	2.3%	0%	4.4%	4.4%
TERMINAL (d)	1/34 (3%)	0/31 (0%)	2/37 (5%)	2/35 (6%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.264	P=0.518N	P=0.530	P=0.510
POLY 3	P=0.262	P=0.503N	P=0.515	P=0.513
POLY 1.5	P=0.254	P=0.501N	P=0.507	P=0.507
POLY 6	P=0.271	P=0.506N	P=0.523	P=0.519
LOGISTIC REGRESSION	P=0.264	(e)	P=0.530	P=0.510
COCH-ARM / FISHERS	P=0.245	P=0.500N	P=0.500	P=0.500
ORDER RESTRICTED	P=0.281	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.293	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Lung  
 Alveolar/Bronchiolar Carcinoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.557N	P=0.482	(e)	(e)
POLY 3	P=0.565N	P=0.497	(e)	(e)
POLY 1.5	P=0.566N	P=0.499	(e)	(e)
POLY 6	P=0.565N	P=0.494	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.482	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.373N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.385N	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/43.47	1/42.88	2/45.4	2/45.15
POLY-3 PERCENT (g)	2.3%	2.3%	4.4%	4.4%
TERMINAL (d)	1/34 (3%)	1/31 (3%)	2/37 (5%)	2/35 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.361	P=0.741	P=0.530	P=0.510
POLY 3	P=0.357	P=0.758	P=0.515	P=0.513
POLY 1.5	P=0.348	P=0.759	P=0.507	P=0.507
POLY 6	P=0.367	P=0.754	P=0.523	P=0.519
LOGISTIC REGRESSION	P=0.361	P=0.741	P=0.530	P=0.510
COCH-ARM / FISHERS	P=0.337	P=0.753N	P=0.500	P=0.500
ORDER RESTRICTED	P=0.463	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.472	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Mammary Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/43.47	1/42.88	0/45.4	3/46.34
POLY-3 PERCENT (g)	2.3%	2.3%	0%	6.5%
TERMINAL (d)	1/34 (3%)	1/31 (3%)	0/37 (0%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	381

**STATISTICAL TESTS**

LIFE TABLE	P=0.174	P=0.741	P=0.483N	P=0.317
POLY 3	P=0.171	P=0.758	P=0.491N	P=0.329
POLY 1.5	P=0.166	P=0.759	P=0.496N	P=0.319
POLY 6	P=0.177	P=0.754	P=0.487N	P=0.338
LOGISTIC REGRESSION	P=0.154	P=0.741	(e)	P=0.299
COCH-ARM / FISHERS	P=0.160	P=0.753N	P=0.500N	P=0.309
ORDER RESTRICTED	P=0.116	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.132	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Mammary Gland  
 Fibroadenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	43/50 (86%)	43/50 (86%)	47/50 (94%)	46/50 (92%)
POLY-3 RATE (b)	43/46.73	43/47.81	47/48.64	46/47.5
POLY-3 PERCENT (g)	92%	90%	96.6%	96.9%
TERMINAL (d)	32/34 (94%)	27/31 (87%)	36/37 (97%)	35/35 (100%)
FIRST INCIDENCE	505	525	478	618

**STATISTICAL TESTS**

LIFE TABLE	P=0.515	P=0.357	P=0.541	P=0.465
POLY 3	P=0.107	P=0.504N	P=0.274	P=0.248
POLY 1.5	P=0.099	P=0.557N	P=0.173	P=0.225
POLY 6	P=0.121	P=0.438N	P=0.401	P=0.290
LOGISTIC REGRESSION	P=0.245	P=0.607N	P=0.242	P=0.542
COCH-ARM / FISHERS	P=0.146	P=0.613N	P=0.159	P=0.262
ORDER RESTRICTED	P=0.145	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.152	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

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

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TUMOR RATES	#	#	#	#
OVERALL (a)	43/50 (86%)	43/50 (86%)	47/50 (94%)	47/50 (94%)
POLY-3 RATE (b)	43/46.73	43/47.81	47/48.64	47/48.36
POLY-3 PERCENT (g)	92%	90%	96.6%	97.2%
TERMINAL (d)	32/34 (94%)	27/31 (87%)	36/37 (97%)	35/35 (100%)
FIRST INCIDENCE	505	525	478	381

**STATISTICAL TESTS**

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LIFE TABLE	P=0.435	P=0.357	P=0.541	P=0.386
POLY 3	P=0.090	P=0.504N	P=0.274	P=0.217
POLY 1.5	P=0.068	P=0.557N	P=0.173	P=0.169
POLY 6	P=0.114	P=0.438N	P=0.401	P=0.277
LOGISTIC REGRESSION	P=0.097	P=0.607N	P=0.242	P=0.227
COCH-ARM / FISHERS	P=0.076	P=0.613N	P=0.159	P=0.159
ORDER RESTRICTED	P=0.120	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.131	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Mesentery  
 Fibrosarcoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Pancreas  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	28/50 (56%)	33/50 (66%)	30/50 (60%)	26/50 (52%)
POLY-3 RATE (b)	28/46.68	33/46.8	30/46.68	26/47.04
POLY-3 PERCENT (g)	60%	70.5%	64.3%	55.3%
TERMINAL (d)	19/34 (56%)	22/31 (71%)	23/37 (62%)	18/35 (51%)
FIRST INCIDENCE	468	493	631	604

**STATISTICAL TESTS**

LIFE TABLE	P=0.176N	P=0.151	P=0.554N	P=0.371N
POLY 3	P=0.226N	P=0.191	P=0.414	P=0.400N
POLY 1.5	P=0.248N	P=0.196	P=0.400	P=0.417N
POLY 6	P=0.201N	P=0.185	P=0.430	P=0.378N
LOGISTIC REGRESSION	P=0.210N	P=0.201	P=0.466	P=0.392N
COCH-ARM / FISHERS	P=0.256N	P=0.206	P=0.420	P=0.421N
ORDER RESTRICTED	P=0.244N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	28/50 (56%)	33/50 (66%)	31/50 (62%)	26/50 (52%)
POLY-3 RATE (b)	28/46.68	33/46.8	31/46.68	26/47.04
POLY-3 PERCENT (g)	60%	70.5%	66.4%	55.3%
TERMINAL (d)	19/34 (56%)	22/31 (71%)	24/37 (65%)	18/35 (51%)
FIRST INCIDENCE	468	493	631	604

**STATISTICAL TESTS**

LIFE TABLE	P=0.181N	P=0.151	P=0.518	P=0.371N
POLY 3	P=0.233N	P=0.191	P=0.331	P=0.400N
POLY 1.5	P=0.255N	P=0.196	P=0.320	P=0.417N
POLY 6	P=0.207N	P=0.185	P=0.344	P=0.378N
LOGISTIC REGRESSION	P=0.216N	P=0.201	P=0.388	P=0.392N
COCH-ARM / FISHERS	P=0.264N	P=0.206	P=0.342	P=0.421N
ORDER RESTRICTED	P=0.228N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.234N	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Skin  
 Basal Cell Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.557N	P=0.482	(e)	(e)
POLY 3	P=0.565N	P=0.497	(e)	(e)
POLY 1.5	P=0.566N	P=0.499	(e)	(e)
POLY 6	P=0.565N	P=0.494	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.482	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.373N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.385N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	2/43.25	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	626	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.389N	P=0.224	(e)	(e)
POLY 3	P=0.397N	P=0.236	(e)	(e)
POLY 1.5	P=0.400N	P=0.237	(e)	(e)
POLY 6	P=0.395N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	P=0.407N	P=0.238	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.238N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	2/43.25	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	626	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.389N	P=0.224	(e)	(e)
POLY 3	P=0.397N	P=0.236	(e)	(e)
POLY 1.5	P=0.400N	P=0.237	(e)	(e)
POLY 6	P=0.395N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	P=0.407N	P=0.238	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.238N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 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)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	3/43.44	1/45.4	0/45.15
POLY-3 PERCENT (g)	0%	6.9%	2.2%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	1/37 (3%)	0/35 (0%)
FIRST INCIDENCE	---	626	729 (T)	---

**STATISTICAL TESTS**

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LIFE TABLE	P=0.347N	P=0.116	P=0.517	(e)
POLY 3	P=0.350N	P=0.118	P=0.509	(e)
POLY 1.5	P=0.357N	P=0.119	P=0.504	(e)
POLY 6	P=0.344N	P=0.116	P=0.513	(e)
LOGISTIC REGRESSION	P=0.366N	P=0.121	P=0.517	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.121	P=0.500	(e)
ORDER RESTRICTED	P=0.213N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.225N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

**Skin  
 Fibroma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/43.47	1/42.88	2/45.4	4/45.33
POLY-3 PERCENT (g)	2.3%	2.3%	4.4%	8.8%
TERMINAL (d)	1/34 (3%)	1/31 (3%)	2/37 (5%)	3/35 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	682

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**STATISTICAL TESTS**

LIFE TABLE	P=0.084	P=0.741	P=0.530	P=0.193
POLY 3	P=0.080	P=0.758	P=0.515	P=0.191
POLY 1.5	P=0.076	P=0.759	P=0.507	P=0.186
POLY 6	P=0.084	P=0.754	P=0.523	P=0.197
LOGISTIC REGRESSION	P=0.084	P=0.741	P=0.530	P=0.195
COCH-ARM / FISHERS	P=0.072	P=0.753N	P=0.500	P=0.181
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.115	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	1/43.47	1/42.88	2/45.4	6/45.78
POLY-3 PERCENT (g)	2.3%	2.3%	4.4%	13.1%
TERMINAL (d)	1/34 (3%)	1/31 (3%)	2/37 (5%)	3/35 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	618

**STATISTICAL TESTS**

LIFE TABLE	P=0.015*	P=0.741	P=0.530	P=0.071
POLY 3	P=0.012*	P=0.758	P=0.515	P=0.064
POLY 1.5	P=0.011*	P=0.759	P=0.507	P=0.061
POLY 6	P=0.013*	P=0.754	P=0.523	P=0.069
LOGISTIC REGRESSION	P=0.012*	P=0.741	P=0.530	P=0.061
COCH-ARM / FISHERS	P=0.011*	P=0.753N	P=0.500	P=0.056
ORDER RESTRICTED	P=0.017*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.018*	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Skin  
 Fibrosarcoma**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	2/45.6
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	618

---

**STATISTICAL TESTS**

LIFE TABLE	P=0.054	(e)	(e)	P=0.256
POLY 3	P=0.048*	(e)	(e)	P=0.248
POLY 1.5	P=0.047*	(e)	(e)	P=0.243
POLY 6	P=0.050*	(e)	(e)	P=0.253
LOGISTIC REGRESSION	P=0.045*	(e)	(e)	P=0.233
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.034*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Skin  
 Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/43.07	1/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	2.2%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	1/37 (3%)	0/35 (0%)
FIRST INCIDENCE	---	679	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.581N	P=0.500	P=0.517	(e)
POLY 3	P=0.584N	P=0.498	P=0.509	(e)
POLY 1.5	P=0.589N	P=0.499	P=0.504	(e)
POLY 6	P=0.579N	P=0.495	P=0.513	(e)
LOGISTIC REGRESSION	P=0.589N	P=0.500	P=0.517	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.399N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.411N	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Skin  
 Squamous Cell Papilloma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

---

**STATISTICAL TESTS**

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/43.07	1/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	2.2%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	1/37 (3%)	0/35 (0%)
FIRST INCIDENCE	---	679	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.581N	P=0.500	P=0.517	(e)
POLY 3	P=0.584N	P=0.498	P=0.509	(e)
POLY 1.5	P=0.589N	P=0.499	P=0.504	(e)
POLY 6	P=0.579N	P=0.495	P=0.513	(e)
LOGISTIC REGRESSION	P=0.589N	P=0.500	P=0.517	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.399N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.411N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/43.07	1/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	2.2%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	1/37 (3%)	0/35 (0%)
FIRST INCIDENCE	---	679	729 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.581N	P=0.500	P=0.517	(e)
POLY 3	P=0.584N	P=0.498	P=0.509	(e)
POLY 1.5	P=0.589N	P=0.499	P=0.504	(e)
POLY 6	P=0.579N	P=0.495	P=0.513	(e)
LOGISTIC REGRESSION	P=0.589N	P=0.500	P=0.517	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.399N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.411N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Skin  
 Trichoepithelioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	1/43.25	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	626	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.553N	P=0.490	(e)	(e)
POLY 3	P=0.564N	P=0.499	(e)	(e)
POLY 1.5	P=0.565N	P=0.500	(e)	(e)
POLY 6	P=0.563N	P=0.497	(e)	(e)
LOGISTIC REGRESSION	P=0.569N	P=0.497	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.374N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

Spleen  
 Fibrosarcoma

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	6/49 (12%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	6/43.17	7/43.27	10/45.98	8/45.58
POLY-3 PERCENT (g)	13.9%	16.2%	21.8%	17.6%
TERMINAL (d)	4/34 (12%)	5/31 (16%)	8/37 (22%)	5/35 (14%)
FIRST INCIDENCE	637	674	631	668

**STATISTICAL TESTS**

LIFE TABLE	P=0.375	P=0.445	P=0.259	P=0.419
POLY 3	P=0.363	P=0.502	P=0.246	P=0.429
POLY 1.5	P=0.344	P=0.510	P=0.231	P=0.417
POLY 6	P=0.382	P=0.484	P=0.259	P=0.438
LOGISTIC REGRESSION	P=0.365	P=0.500	P=0.240	P=0.429
COCH-ARM / FISHERS	P=0.323	P=0.516	P=0.220	P=0.403
ORDER RESTRICTED	P=0.379	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.391	(e)	(e)	(e)

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

**TUMOR RATES**

OVERALL (a)	7/49 (14%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	7/43.17	7/43.27	10/45.98	8/45.58
POLY-3 PERCENT (g)	16.2%	16.2%	21.8%	17.6%
TERMINAL (d)	5/34 (15%)	5/31 (16%)	8/37 (22%)	5/35 (14%)
FIRST INCIDENCE	637	674	631	668

**STATISTICAL TESTS**

LIFE TABLE	P=0.464	P=0.553	P=0.360	P=0.530
POLY 3	P=0.455	P=0.613N	P=0.347	P=0.546
POLY 1.5	P=0.434	P=0.604N	P=0.329	P=0.532
POLY 6	P=0.477	P=0.599	P=0.363	P=0.556
LOGISTIC REGRESSION	P=0.460	P=0.612	P=0.342	P=0.548
COCH-ARM / FISHERS	P=0.411	P=0.597N	P=0.314	P=0.517
ORDER RESTRICTED	P=0.531	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.537	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**Thyroid Gland: Follicular Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/49 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.61	1/42.88	2/45.76	1/45.15
POLY-3 PERCENT (g)	0%	2.3%	4.4%	2.2%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	1/37 (3%)	1/35 (3%)
FIRST INCIDENCE	---	729 (T)	629	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.389	P=0.482	P=0.257	P=0.506
POLY 3	P=0.391	P=0.501	P=0.253	P=0.512
POLY 1.5	P=0.382	P=0.503	P=0.247	P=0.508
POLY 6	P=0.400	P=0.497	P=0.259	P=0.514
LOGISTIC REGRESSION	P=0.378	P=0.482	P=0.241	P=0.506
COCH-ARM / FISHERS	P=0.371	P=0.505	P=0.253	P=0.505
ORDER RESTRICTED	P=0.239	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.252	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

**TUMOR RATES**

OVERALL (a)	0/49 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.61	1/42.88	2/45.76	1/45.15
POLY-3 PERCENT (g)	0%	2.3%	4.4%	2.2%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	1/37 (3%)	1/35 (3%)
FIRST INCIDENCE	---	729 (T)	629	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.389	P=0.482	P=0.257	P=0.506
POLY 3	P=0.391	P=0.501	P=0.253	P=0.512
POLY 1.5	P=0.382	P=0.503	P=0.247	P=0.508
POLY 6	P=0.400	P=0.497	P=0.259	P=0.514
LOGISTIC REGRESSION	P=0.378	P=0.482	P=0.241	P=0.506
COCH-ARM / FISHERS	P=0.371	P=0.505	P=0.253	P=0.505
ORDER RESTRICTED	P=0.239	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.252	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	9/50 (18%)	6/50 (12%)	13/50 (26%)	11/50 (22%)
POLY-3 RATE (b)	9/43.81	6/44.3	13/46.45	11/45.55
POLY-3 PERCENT (g)	20.5%	13.6%	28%	24.2%
TERMINAL (d)	8/34 (24%)	3/31 (10%)	11/37 (30%)	9/35 (26%)
FIRST INCIDENCE	634	395	478	636
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.265	P=0.346N	P=0.301	P=0.436
POLY 3	P=0.237	P=0.277N	P=0.282	P=0.438
POLY 1.5	P=0.221	P=0.279N	P=0.258	P=0.421
POLY 6	P=0.256	P=0.282N	P=0.305	P=0.455
LOGISTIC REGRESSION	P=0.224	P=0.289N	P=0.260	P=0.453
COCH-ARM / FISHERS	P=0.208	P=0.288N	P=0.235	P=0.402
ORDER RESTRICTED	P=0.235	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.247	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 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	250 MG/L	500 MG/L	1000 MG/L

---

**Zymbal's Gland  
 Carcinoma or Adenoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	2/43.29	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/34 (0%)	1/31 (3%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	610	---	---

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**STATISTICAL TESTS**

LIFE TABLE	P=0.390N	P=0.227	(e)	(e)
POLY 3	P=0.397N	P=0.236	(e)	(e)
POLY 1.5	P=0.400N	P=0.237	(e)	(e)
POLY 6	P=0.395N	P=0.233	(e)	(e)
LOGISTIC REGRESSION	P=0.408N	P=0.238	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.238N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.250N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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

TUMOR RATES	#	#	#	#
OVERALL (a)	15/50 (30%)	12/50 (24%)	12/50 (24%)	12/50 (24%)
POLY-3 RATE (b)	15/44.97	12/45.28	12/47.13	12/46.17
POLY-3 PERCENT (g)	33.4%	26.5%	25.5%	26%
TERMINAL (d)	8/34 (24%)	5/31 (16%)	4/37 (11%)	8/35 (23%)
FIRST INCIDENCE	612	395	627	618

**STATISTICAL TESTS**

LIFE TABLE	P=0.265N	P=0.408N	P=0.271N	P=0.300N
POLY 3	P=0.287N	P=0.315N	P=0.274N	P=0.294N
POLY 1.5	P=0.305N	P=0.315N	P=0.300N	P=0.308N
POLY 6	P=0.273N	P=0.327N	P=0.249N	P=0.287N
LOGISTIC REGRESSION	P=0.319N	P=0.326N	P=0.319N	P=0.304N
COCH-ARM / FISHERS	P=0.321N	P=0.326N	P=0.326N	P=0.326N
ORDER RESTRICTED	P=0.332N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.343N	(e)	(e)	(e)

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

	Females			
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

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

---

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

	Females			
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs  
 Mesothelioma: Malignant**

---

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.47	0/42.88	0/45.4	0/45.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/31 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

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

---

TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

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**All Organs  
 Benign Tumors**

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TUMOR RATES	#	#	#	#
OVERALL (a)	49/50 (98%)	48/50 (96%)	48/50 (96%)	47/50 (94%)
POLY-3 RATE (b)	49/49.18	48/49.34	48/48.64	47/47.93
POLY-3 PERCENT (g)	99.6%	97.3%	98.7%	98.1%
TERMINAL (d)	34/34 (100%)	30/31 (97%)	37/37 (100%)	35/35 (100%)
FIRST INCIDENCE	468	395	478	604

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**STATISTICAL TESTS**

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LIFE TABLE	P=0.173N	P=0.412	P=0.234N	P=0.301N
POLY 3	P=0.500N	P=0.442N	P=0.791N	P=0.619N
POLY 1.5	P=0.409N	P=0.450N	P=0.749N	P=0.483N
POLY 6	P=0.597N	P=0.468N	P=0.937N	P=0.791N
LOGISTIC REGRESSION	P=0.189N	P=0.472N	P=0.513N	P=0.200N
COCH-ARM / FISHERS	P=0.232N	P=0.500N	P=0.500N	P=0.309N
ORDER RESTRICTED	P=0.354N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.365N	(e)	(e)	(e)

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TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

**All Organs  
 Malignant Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	18/50 (36%)	18/50 (36%)	13/50 (26%)	23/50 (46%)
POLY-3 RATE (b)	18/44.97	18/45.59	13/47.13	23/49.38
POLY-3 PERCENT (g)	40%	39.5%	27.6%	46.6%
TERMINAL (d)	11/34 (32%)	9/31 (29%)	5/37 (14%)	12/35 (34%)
FIRST INCIDENCE	612	395	627	258

**STATISTICAL TESTS**

LIFE TABLE	P=0.300	P=0.485	P=0.160N	P=0.290
POLY 3	P=0.285	P=0.565N	P=0.147N	P=0.332
POLY 1.5	P=0.242	P=0.566N	P=0.170N	P=0.283
POLY 6	P=0.331	P=0.575N	P=0.128N	P=0.380
LOGISTIC REGRESSION	P=0.176	P=0.578	P=0.181N	P=0.193
COCH-ARM / FISHERS	P=0.185	P=0.582N	P=0.194N	P=0.208
ORDER RESTRICTED	P=0.210	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.233	(e)	(e)	(e)



TDMS No. 96019 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Water disinfection byproducts (Bromochloroacetic acid)  
 CAS Number: 5589-96-8

Date Report Requested: 12/06/2007  
 Time Report Requested: 09:56:07  
 First Dose M/F: 09/26/01 / 09/26/01  
 Lab: SRI

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

---

DOSE	Females			
	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

---

**All Organs  
 Malignant and Benign Tumors**

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TUMOR RATES	#	#	#	#
OVERALL (a)	49/50 (98%)	49/50 (98%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	49/49.18	49/49.34	49/49	50/50
POLY-3 PERCENT (g)	99.6%	99.3%	100%	100%
TERMINAL (d)	34/34 (100%)	31/31 (100%)	37/37 (100%)	35/35 (100%)
FIRST INCIDENCE	468	395	478	258

**STATISTICAL TESTS**

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LIFE TABLE	P=0.351N	P=0.341	P=0.299N	P=0.522N
POLY 3	P=0.781	P=0.986N	P=1.000	P=1.000
POLY 1.5	P=0.436	P=0.878N	P=0.916	P=0.911
POLY 6	P=1.000	P=1.000N	P=1.000	P=1.000
LOGISTIC REGRESSION	P=0.113	P=0.766N	(e)	P=0.346
COCH-ARM / FISHERS	P=0.311	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.268	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.277	(e)	(e)	(e)

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TDMS No. 96019 - 05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F 344

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Water disinfection byproducts (Bromochloroacetic acid)  
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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 \*\*\*