

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
Time Report Requested: 09:57:26
First Dose M/F: 01/29/03 / 01/30/03
Lab: BAT

F3_R8

C Number: C88148C
Lock Date: 09/22/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

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HISTORICAL CONTROL STUDIES From November 2008 report

SAME ROUTE

96020-01 -- TEF evaluation (Binary mixture; PCB 126/PCB 153) (GAVAGE CORN OIL)
96007-04 -- TEF evaluation (Dioxin mixture) (GAVAGE CORN OIL)
20304-01 -- TEF evaluation (PCB 118) (GAVAGE CORN OIL)
96022-02 -- TEF Evaluation (PCB Mixture; PCB 126/PCB 118) (GAVAGE CORN OIL)
96007-05 -- TEF evaluation (PECDF (Pentachlorodibenzofuran)) (GAVAGE CORN OIL)
96007-03 -- TEF evaluation (TCDD) (GAVAGE CORN OIL)
96007-01 -- Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl) (GAVAGE CORN OIL)
96021-01 -- Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl) (GAVAGE CORN OIL)

ALL ROUTES

96020-01 -- TEF evaluation (Binary mixture; PCB 126/PCB 153) (GAVAGE CORN OIL)
96007-04 -- TEF evaluation (Dioxin mixture) (GAVAGE CORN OIL)
20304-01 -- TEF evaluation (PCB 118) (GAVAGE CORN OIL)
96022-02 -- TEF Evaluation (PCB Mixture; PCB 126/PCB 118) (GAVAGE CORN OIL)
96007-05 -- TEF evaluation (PECDF (Pentachlorodibenzofuran)) (GAVAGE CORN OIL)
96007-03 -- TEF evaluation (TCDD) (GAVAGE CORN OIL)
96007-01 -- Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl) (GAVAGE CORN OIL)
96021-01 -- Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl) (GAVAGE CORN OIL)

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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
Ovary
Pancreas
Parathyroid Gland
Pituitary Gland
Prostate
Salivary Glands
Testes
Thymus
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 3,3',4,4'-TETRACHLOROAZOBENZENE

MALE RATS

Organ

Adrenal Medulla

Heart
Liver
Lung
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)

Oral Mucosa
Pancreas

Pituitary Gland: Pars Distalis or Unspecified Site
Prostate

Skin

Thyroid Gland: C-Cell

Thyroid Gland: Follicular Cell
Tissue NOS
All Organs

Morphology

Pheochromocytoma Benign
Pheochromocytoma: Benign, Complex, Malignant, NOS
Schwannoma Benign
Cholangiocarcinoma
Cystic Keratinizing Epithelioma
Squamous Cell Carcinoma
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma
Squamous Cell Carcinoma
Adenoma
Carcinoma or Adenoma
Adenoma
Adenoma
Carcinoma or Adenoma
Fibroma
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma
Adenoma
Carcinoma or Adenoma
Adenoma
Schwannoma Malignant
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type
Benign Tumors
Malignant Tumors
Malignant and Benign Tumors

FEMALE RATS

Organ

Lung
Mammary Gland

Morphology

Cystic Keratinizing Epithelioma
Carcinoma
Carcinoma or Adenoma
Fibroadenoma
Fibroma, Fibroadenoma or Adenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

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Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)	Squamous Cell Carcinoma Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma
Oral Mucosa	Squamous Cell Carcinoma
Pituitary Gland: Pars Distalis or Unspecified Site	Adenoma
Stomach, Forestomach	Squamous Cell Carcinoma or Papilloma Squamous Squamous Cell Papilloma
Thyroid Gland: C-Cell	Adenoma Carcinoma or Adenoma

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/40.97	1/29.04	0/25.86	2/25.42
POLY-3 PERCENT (g)	2.4%	3.4%	0%	7.9%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	671	644	---	365
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.238	P=0.678	P=0.587N	P=0.343
POLY 1.5	P=0.278	P=0.715	P=0.553N	P=0.407
POLY 6	P=0.178	P=0.624	P=0.633N	P=0.262
COCH-ARM / FISHERS	P=0.325	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.236	P=0.416	P=0.264N	P=0.208
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	6/50 (12%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	5/41.05	6/31.05	6/27.53	7/26.54
POLY-3 PERCENT (g)	12.2%	19.3%	21.8%	26.4%
TERMINAL (d)	4/28 (14%)	2/9 (22%)	0/4 (0%)	1/2 (50%)
FIRST INCIDENCE	650	500	554	544
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.116	P=0.309	P=0.240	P=0.128
POLY 1.5	P=0.206	P=0.385	P=0.333	P=0.214
POLY 6	P=0.039*	P=0.216	P=0.143	P=0.056
COCH-ARM / FISHERS	P=0.359	P=0.500	P=0.500	P=0.380
MAX-ISO-POLY-3	P=0.176	P=0.233	P=0.189	P=0.110
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	7/50 (14%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	5/41.05	7/31.25	6/27.53	7/26.54
POLY-3 PERCENT (g)	12.2%	22.4%	21.8%	26.4%
TERMINAL (d)	4/28 (14%)	2/9 (22%)	0/4 (0%)	1/2 (50%)
FIRST INCIDENCE	650	500	554	544
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.139	P=0.203	P=0.240	P=0.128
POLY 1.5	P=0.243	P=0.269	P=0.333	P=0.214
POLY 6	P=0.046*	P=0.130	P=0.143	P=0.056
COCH-ARM / FISHERS	P=0.413	P=0.380	P=0.500	P=0.380
MAX-ISO-POLY-3	P=0.181	P=0.153	P=0.189	P=0.110
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Heart				
Schwannoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	3/30.09	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	10%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	521	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.427N	P=0.073	(e)	(e)
POLY 1.5	P=0.354N	P=0.090	(e)	(e)
POLY 6	P=0.546N	P=0.056	(e)	(e)
COCH-ARM / FISHERS	P=0.276N	P=0.121	(e)	(e)
MAX-ISO-POLY-3	P=0.314N	P=0.036*	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.05	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	650	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.239N	P=0.324N	P=0.351N	P=0.368N
POLY 1.5	P=0.240N	P=0.285N	P=0.302N	P=0.308N
POLY 6	P=0.261N	P=0.383N	P=0.425N	P=0.459N
COCH-ARM / FISHERS	P=0.262N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.187N	P=0.158N	P=0.183N	P=0.198N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Cholangiocarcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	4/50 (8%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/40.76	4/30.10	4/27.91	6/26.50
POLY-3 PERCENT (g)	0%	13.3%	14.3%	22.6%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	0/4 (0%)	1/2 (50%)
FIRST INCIDENCE	---	454	487	529
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.007**	P=0.030*	P=0.026*	P=0.003**
POLY 1.5	P=0.017*	P=0.040*	P=0.036*	P=0.006**
POLY 6	P=0.002**	P=0.020*	P=0.016*	P<0.001**
COCH-ARM / FISHERS	P=0.048*	P=0.059	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.011*	P=0.018*	P=0.017*	P=0.003**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	1/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	3.5%	0%	0%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.668N	P=0.432	(e)	(e)
POLY 1.5	P=0.638N	P=0.460	(e)	(e)
POLY 6	P=0.711N	P=0.393	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.495N	P=0.157	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	1/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	3.5%	0%	0%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.668N	P=0.432	(e)	(e)
POLY 1.5	P=0.638N	P=0.460	(e)	(e)
POLY 6	P=0.711N	P=0.393	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.495N	P=0.157	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	1/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	3.5%	0%	0%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.668N	P=0.432	(e)	(e)
POLY 1.5	P=0.638N	P=0.460	(e)	(e)
POLY 6	P=0.711N	P=0.393	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.495N	P=0.157	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.76	1/28.88	1/26.12	0/24.26
POLY-3 PERCENT (g)	4.9%	3.5%	3.8%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	690	660	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.274N	P=0.616N	P=0.647N	P=0.366N
POLY 1.5	P=0.235N	P=0.568N	P=0.590N	P=0.307N
POLY 6	P=0.356N	P=0.679N	P=0.706	P=0.456N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.320N	P=0.401N	P=0.432N	P=0.197N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Lung				
Cystic Keratinizing Epithelioma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	14/50 (28%)	31/50 (62%)	37/50 (74%)
POLY-3 RATE (b)	0/40.76	14/31.50	31/36.08	37/39.94
POLY-3 PERCENT (g)	0%	44.5%	85.9%	92.7%
TERMINAL (d)	0/28 (0%)	4/9 (44%)	4/4 (100%)	2/2 (100%)
FIRST INCIDENCE	---	576	367	192
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)				
Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	1/40.89	5/29.94	4/27.63	5/26.55
POLY-3 PERCENT (g)	2.5%	16.7%	14.5%	18.8%
TERMINAL (d)	0/28 (0%)	2/9 (22%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	694	504	474	524
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.065	P=0.046*	P=0.085	P=0.033*
POLY 1.5	P=0.118	P=0.064	P=0.115	P=0.054
POLY 6	P=0.023*	P=0.028*	P=0.055	P=0.017*
COCH-ARM / FISHERS	P=0.225	P=0.102	P=0.181	P=0.102
MAX-ISO-POLY-3	P=0.068	P=0.031*	P=0.058	P=0.028*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva) Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	1/40.89	5/29.94	4/27.63	5/26.55
POLY-3 PERCENT (g)	2.5%	16.7%	14.5%	18.8%
TERMINAL (d)	0/28 (0%)	2/9 (22%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	694	504	474	524
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.065	P=0.046*	P=0.085	P=0.033*
POLY 1.5	P=0.118	P=0.064	P=0.115	P=0.054
POLY 6	P=0.023*	P=0.028*	P=0.055	P=0.017*
COCH-ARM / FISHERS	P=0.225	P=0.102	P=0.181	P=0.102
MAX-ISO-POLY-3	P=0.068	P=0.031*	P=0.058	P=0.028*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Mucosa				
Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	1/40.89	5/29.94	4/27.63	5/26.55
POLY-3 PERCENT (g)	2.5%	16.7%	14.5%	18.8%
TERMINAL (d)	0/28 (0%)	2/9 (22%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	694	504	474	524
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.065	P=0.046*	P=0.085	P=0.033*
POLY 1.5	P=0.118	P=0.064	P=0.115	P=0.054
POLY 6	P=0.023*	P=0.028*	P=0.055	P=0.017*
COCH-ARM / FISHERS	P=0.225	P=0.102	P=0.181	P=0.102
MAX-ISO-POLY-3	P=0.068	P=0.031*	P=0.058	P=0.028*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pancreas				
Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	9/41.35	1/28.95	0/25.86	0/24.26
POLY-3 PERCENT (g)	21.8%	3.5%	0%	0%
TERMINAL (d)	7/28 (25%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	592	541	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.005N**	P=0.035N*	P=0.016N*	P=0.021N*
POLY 1.5	P=0.003N**	P=0.020N*	P=0.007N**	P=0.008N**
POLY 6	P=0.010N**	P=0.073N	P=0.049N*	P=0.075N
COCH-ARM / FISHERS	P=0.006N**	P=0.009N**	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P=0.008N**	P=0.031N*	P=0.018N*	P=0.025N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pancreas				
Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	9/41.35	1/28.95	0/25.86	0/24.26
POLY-3 PERCENT (g)	21.8%	3.5%	0%	0%
TERMINAL (d)	7/28 (25%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	592	541	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.005N**	P=0.035N*	P=0.016N*	P=0.021N*
POLY 1.5	P=0.003N**	P=0.020N*	P=0.007N**	P=0.008N**
POLY 6	P=0.010N**	P=0.073N	P=0.049N*	P=0.075N
COCH-ARM / FISHERS	P=0.006N**	P=0.009N**	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P=0.008N**	P=0.031N*	P=0.018N*	P=0.025N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	13/50 (26%)	6/50 (12%)	7/50 (14%)	0/49 (0%)
POLY-3 RATE (b)	13/42.96	6/30.58	7/28.16	0/23.55
POLY-3 PERCENT (g)	30.3%	19.6%	24.9%	0%
TERMINAL (d)	5/28 (18%)	1/9 (11%)	2/4 (50%)	0/2 (0%)
FIRST INCIDENCE	420	535	533	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.006N**	P=0.227N	P=0.413N	P=0.005N**
POLY 1.5	P=0.002N**	P=0.139N	P=0.264N	P<0.001N**
POLY 6	P=0.038N*	P=0.388N	P=0.574	P=0.036N*
COCH-ARM / FISHERS	P<0.001N**	P=0.062N	P=0.105N	P<0.001N**
MAX-ISO-POLY-3	P=0.009N**	P=0.189N	P=0.341N	P=0.010N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Prostate Adenoma				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/40.99	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	12.2%	0%	0%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	700	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.043N*	P=0.074N	P=0.094N	P=0.107N
POLY 1.5	P=0.041N*	P=0.051N	P=0.061N	P=0.064N
POLY 6	P=0.059N	P=0.120N	P=0.163N	P=0.204N
COCH-ARM / FISHERS	P=0.052N	P=0.028N*	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.040N*	P=0.049N*	P=0.068N	P=0.081N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Prostate Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	5/40.99	0/28.74	0/25.86	1/24.69
POLY-3 PERCENT (g)	12.2%	0%	0%	4.1%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	700	---	---	603
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.205N	P=0.074N	P=0.094N	P=0.264N
POLY 1.5	P=0.195N	P=0.051N	P=0.061N	P=0.182N
POLY 6	P=0.251N	P=0.120N	P=0.163N	P=0.407N
COCH-ARM / FISHERS	P=0.213N	P=0.028N*	P=0.028N*	P=0.102N
MAX-ISO-POLY-3	P=0.083N	P=0.049N*	P=0.068N	P=0.193N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Salivary Glands				
Schwannoma Malignant				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/41.33	2/29.74	0/25.42	1/25.04
POLY-3 PERCENT (g)	2.4%	6.7%	0%	4%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	549	576	---	443
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.633	P=0.388	P=0.592N	P=0.638
POLY 1.5	P=0.631N	P=0.434	P=0.558N	P=0.693
POLY 6	P=0.524	P=0.330	P=0.636N	P=0.553
COCH-ARM / FISHERS	P=0.576N	P=0.500	P=0.505N	P=0.753N
MAX-ISO-POLY-3	P=0.544N	P=0.226	P=0.268N	P=0.387
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/40.76	2/29.53	0/25.86	1/25.24
POLY-3 PERCENT (g)	2.5%	6.8%	0%	4%
TERMINAL (d)	1/28 (4%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	---	225
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.641	P=0.390	P=0.587N	P=0.643
POLY 1.5	P=0.628N	P=0.435	P=0.552N	P=0.698
POLY 6	P=0.532	P=0.330	P=0.631N	P=0.559
COCH-ARM / FISHERS	P=0.577N	P=0.500	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.535N	P=0.227	P=0.263N	P=0.391
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/40.76	2/29.53	1/26.42	1/25.24
POLY-3 PERCENT (g)	2.5%	6.8%	3.8%	4%
TERMINAL (d)	1/28 (4%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	554	225
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.603	P=0.390	P=0.655	P=0.643
POLY 1.5	P=0.619N	P=0.435	P=0.700	P=0.698
POLY 6	P=0.473	P=0.330	P=0.589	P=0.559
COCH-ARM / FISHERS	P=0.546N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.544	P=0.227	P=0.399	P=0.391
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/40.76	2/29.53	1/26.42	1/25.24
POLY-3 PERCENT (g)	2.5%	6.8%	3.8%	4%
TERMINAL (d)	1/28 (4%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	554	225
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.603	P=0.390	P=0.655	P=0.643
POLY 1.5	P=0.619N	P=0.435	P=0.700	P=0.698
POLY 6	P=0.473	P=0.330	P=0.589	P=0.559
COCH-ARM / FISHERS	P=0.546N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.544	P=0.227	P=0.399	P=0.391
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
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)	3/50 (6%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/40.76	2/29.53	1/26.42	1/25.24
POLY-3 PERCENT (g)	7.4%	6.8%	3.8%	4%
TERMINAL (d)	3/28 (11%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	554	225
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.384N	P=0.642N	P=0.471N	P=0.488N
POLY 1.5	P=0.327N	P=0.584N	P=0.402N	P=0.406N
POLY 6	P=0.494N	P=0.628	P=0.566N	P=0.606N
COCH-ARM / FISHERS	P=0.277N	P=0.500N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.501N	P=0.467N	P=0.314N	P=0.329N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/41.09	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	12.2%	0%	0%	0%
TERMINAL (d)	3/28 (11%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	650	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.043N*	P=0.074N	P=0.094N	P=0.108N
POLY 1.5	P=0.041N*	P=0.051N	P=0.061N	P=0.065N
POLY 6	P=0.060N	P=0.121N	P=0.164N	P=0.205N
COCH-ARM / FISHERS	P=0.052N	P=0.028N*	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.040N*	P=0.049N*	P=0.069N	P=0.082N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/41.09	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	12.2%	0%	0%	0%
TERMINAL (d)	3/28 (11%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	650	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.043N*	P=0.074N	P=0.094N	P=0.108N
POLY 1.5	P=0.041N*	P=0.051N	P=0.061N	P=0.065N
POLY 6	P=0.060N	P=0.121N	P=0.164N	P=0.205N
COCH-ARM / FISHERS	P=0.052N	P=0.028N*	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.040N*	P=0.049N*	P=0.069N	P=0.082N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.239N	P=0.322N	P=0.349N	P=0.366N
POLY 1.5	P=0.240N	P=0.284N	P=0.301N	P=0.307N
POLY 6	P=0.259N	P=0.380N	P=0.422N	P=0.456N
COCH-ARM / FISHERS	P=0.262N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.185N	P=0.156N	P=0.182N	P=0.197N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.76	1/29.44	0/25.86	0/24.26
POLY-3 PERCENT (g)	4.9%	3.4%	0%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.217N	P=0.610N	P=0.349N	P=0.366N
POLY 1.5	P=0.196N	P=0.565N	P=0.301N	P=0.307N
POLY 6	P=0.267N	P=0.671N	P=0.422N	P=0.456N
COCH-ARM / FISHERS	P=0.186N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.264N	P=0.395N	P=0.182N	P=0.197N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.76	1/29.44	0/25.86	0/24.26
POLY-3 PERCENT (g)	4.9%	3.4%	0%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	486	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.217N	P=0.610N	P=0.349N	P=0.366N
POLY 1.5	P=0.196N	P=0.565N	P=0.301N	P=0.307N
POLY 6	P=0.267N	P=0.671N	P=0.422N	P=0.456N
COCH-ARM / FISHERS	P=0.186N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.264N	P=0.395N	P=0.182N	P=0.197N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Stomach, Forestomach Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	1/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	3.5%	0%	0%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.668N	P=0.432	(e)	(e)
POLY 1.5	P=0.638N	P=0.460	(e)	(e)
POLY 6	P=0.711N	P=0.393	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.495N	P=0.157	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Stomach, Forestomach Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.76	0/28.74	0/25.86	0/24.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.76	1/29.13	1/26.36	0/24.26
POLY-3 PERCENT (g)	4.9%	3.4%	3.8%	0%
TERMINAL (d)	2/28 (7%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	617	580	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.274N	P=0.614N	P=0.644N	P=0.366N
POLY 1.5	P=0.235N	P=0.567N	P=0.589N	P=0.307N
POLY 6	P=0.355N	P=0.675N	P=0.710	P=0.456N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.320N	P=0.398N	P=0.430N	P=0.197N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	13/50 (26%)	3/50 (6%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	13/41.08	3/29.59	1/25.93	4/25.60
POLY-3 PERCENT (g)	31.7%	10.1%	3.9%	15.6%
TERMINAL (d)	11/28 (39%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	671	576	712	586
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.110N	P=0.031N*	P=0.008N**	P=0.126N
POLY 1.5	P=0.082N	P=0.016N*	P=0.002N**	P=0.056N
POLY 6	P=0.201N	P=0.076N	P=0.034N*	P=0.310N
COCH-ARM / FISHERS	P=0.078N	P=0.006N**	P<0.001N**	P=0.016N*
MAX-ISO-POLY-3	P=0.037N*	P=0.030N*	P=0.011N*	P=0.117N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	13/50 (26%)	4/50 (8%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	13/41.08	4/29.59	1/25.93	4/25.60
POLY-3 PERCENT (g)	31.7%	13.5%	3.9%	15.6%
TERMINAL (d)	11/28 (39%)	1/9 (11%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	671	576	712	586
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.098N	P=0.069N	P=0.008N**	P=0.126N
POLY 1.5	P=0.070N	P=0.037N*	P=0.002N**	P=0.056N
POLY 6	P=0.190N	P=0.148N	P=0.034N*	P=0.310N
COCH-ARM / FISHERS	P=0.063N	P=0.016N*	P<0.001N**	P=0.016N*
MAX-ISO-POLY-3	P=0.041N*	P=0.061N	P=0.011N*	P=0.117N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	0/40.76	3/29.33	4/27.67	4/25.45
POLY-3 PERCENT (g)	0%	10.2%	14.5%	15.7%
TERMINAL (d)	0/28 (0%)	1/9 (11%)	1/4 (25%)	0/2 (0%)
FIRST INCIDENCE	---	635	491	476
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.037*	P=0.070	P=0.025*	P=0.021*
POLY 1.5	P=0.072	P=0.088	P=0.036*	P=0.033*
POLY 6	P=0.011*	P=0.052	P=0.016*	P=0.011*
COCH-ARM / FISHERS	P=0.151	P=0.121	P=0.059	P=0.059
MAX-ISO-POLY-3	P=0.055	P=0.036*	P=0.017*	P=0.017*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Tissue NOS				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/40.76	0/28.74	1/25.93	3/26.27
POLY-3 PERCENT (g)	0%	0%	3.9%	11.4%
TERMINAL (d)	0/28 (0%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	712	398
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.010**	(e)	P=0.413	P=0.060
POLY 1.5	P=0.014*	(e)	P=0.448	P=0.080
POLY 6	P=0.006**	(e)	P=0.369	P=0.040*
COCH-ARM / FISHERS	P=0.022*	(e)	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.016*	(e)	P=0.157	P=0.035*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/40.76	1/29.74	1/26.37	4/26.18
POLY-3 PERCENT (g)	2.5%	3.4%	3.8%	15.3%
TERMINAL (d)	1/28 (4%)	0/9 (0%)	0/4 (0%)	0/2 (0%)
FIRST INCIDENCE	727 (T)	62	573	503
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.026*	P=0.686	P=0.655	P=0.077
POLY 1.5	P=0.037*	P=0.721	P=0.700	P=0.111
POLY 6	P=0.014*	P=0.632	P=0.588	P=0.046*
COCH-ARM / FISHERS	P=0.057	P=0.753N	P=0.753N	P=0.181
MAX-ISO-POLY-3	P=0.041*	P=0.422	P=0.398	P=0.056
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	40/50 (80%)	31/50 (62%)	35/50 (70%)	41/50 (82%)
POLY-3 RATE (b)	40/45.81	31/38.71	35/38.33	41/42.83
POLY-3 PERCENT (g)	87.3%	80.1%	91.3%	95.7%
TERMINAL (d)	25/28 (89%)	7/9 (78%)	4/4 (100%)	2/2 (100%)
FIRST INCIDENCE	398	486	367	192
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.022*	P=0.241N	P=0.389	P=0.104
POLY 1.5	P=0.042*	P=0.128N	P=0.617	P=0.202
POLY 6	P=0.019*	P=0.430N	P=0.220	P=0.073
COCH-ARM / FISHERS	P=0.125	P=0.038N*	P=0.178N	P=0.500
MAX-ISO-POLY-3	P=0.022*	P=0.167N	P=0.257	P=0.047*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	9/50 (18%)	15/50 (30%)	13/50 (26%)	19/50 (38%)
POLY-3 RATE (b)	9/43.53	15/34.36	13/31.87	19/33.68
POLY-3 PERCENT (g)	20.7%	43.7%	40.8%	56.4%
TERMINAL (d)	3/28 (11%)	4/9 (44%)	0/4 (0%)	1/2 (50%)
FIRST INCIDENCE	274	62	438	387
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.002**	P=0.023*	P=0.049*	P<0.001**
POLY 1.5	P=0.007**	P=0.050*	P=0.093	P=0.003**
POLY 6	P<0.001**	P=0.007**	P=0.019*	P<0.001**
COCH-ARM / FISHERS	P=0.036*	P=0.121	P=0.235	P=0.022*
MAX-ISO-POLY-3	P=0.002**	P=0.022*	P=0.046*	P<0.001**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	44/50 (88%)	39/50 (78%)	39/50 (78%)	46/50 (92%)
POLY-3 RATE (b)	44/48.16	39/42.73	39/40.99	46/46.53
POLY-3 PERCENT (g)	91.4%	91.3%	95.1%	98.9%
TERMINAL (d)	25/28 (89%)	8/9 (89%)	4/4 (100%)	2/2 (100%)
FIRST INCIDENCE	274	62	367	192
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.029*	P=0.662N	P=0.370	P=0.085
POLY 1.5	P=0.034*	P=0.417N	P=0.603	P=0.115
POLY 6	P=0.051	P=0.469	P=0.238	P=0.096
COCH-ARM / FISHERS	P=0.113	P=0.143N	P=0.143N	P=0.370
MAX-ISO-POLY-3	P=0.037*	P=0.492N	P=0.224	P=0.030*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	4/49 (8%)
POLY-3 RATE (b)	1/38.86	1/38.12	3/37.24	4/38.61
POLY-3 PERCENT (g)	2.6%	2.6%	8.1%	10.4%
TERMINAL (d)	1/25 (4%)	1/30 (3%)	0/19 (0%)	1/17 (6%)
FIRST INCIDENCE	727 (T)	727 (T)	649	590
HC TUMORS SAME ROUTE	4/421 (1%)			
HC TUMORS ALL ROUTES	4/421 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.093	P=0.757	P=0.289	P=0.175
POLY 1.5	P=0.095	P=0.755	P=0.296	P=0.176
POLY 6	P=0.086	P=0.759N	P=0.278	P=0.170
COCH-ARM / FISHERS	P=0.090	P=0.753N	P=0.309	P=0.175
MAX-ISO-POLY-3	P=0.114	P=0.494	P=0.147	P=0.081
HISTCONT SAME RTE	P=0.010**	P=0.390	P=0.043*	P=0.023*
HISTCONT ALL RTEs	P=0.010**	P=0.390	P=0.043*	P=0.023*

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	3/39.02	2/39.00	3/36.94	1/37.87
POLY-3 PERCENT (g)	7.7%	5.1%	8.1%	2.6%
TERMINAL (d)	2/25 (8%)	1/30 (3%)	2/19 (11%)	0/17 (0%)
FIRST INCIDENCE	684	366	668	684
HC TUMORS SAME ROUTE	31/420 (7%)			
HC TUMORS ALL ROUTES	31/420 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.280N	P=0.500N	P=0.638	P=0.315N
POLY 1.5	P=0.274N	P=0.506N	P=0.649	P=0.311N
POLY 6	P=0.299N	P=0.487N	P=0.619	P=0.326N
COCH-ARM / FISHERS	P=0.278N	P=0.500N	P=0.661N	P=0.316N
MAX-ISO-POLY-3	P=0.285N	P=0.323N	P=0.472	P=0.163N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	3/39.02	2/39.00	3/36.94	1/37.87
POLY-3 PERCENT (g)	7.7%	5.1%	8.1%	2.6%
TERMINAL (d)	2/25 (8%)	1/30 (3%)	2/19 (11%)	0/17 (0%)
FIRST INCIDENCE	684	366	668	684
HC TUMORS SAME ROUTE	33/420 (8%)			
HC TUMORS ALL ROUTES	33/420 (8%)			
STATISTICAL TESTS				
POLY 3	P=0.280N	P=0.500N	P=0.638	P=0.315N
POLY 1.5	P=0.274N	P=0.506N	P=0.649	P=0.311N
POLY 6	P=0.299N	P=0.487N	P=0.619	P=0.326N
COCH-ARM / FISHERS	P=0.278N	P=0.500N	P=0.661N	P=0.316N
MAX-ISO-POLY-3	P=0.285N	P=0.323N	P=0.472	P=0.163N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Heart				
Schwannoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/38.86	1/38.12	0/36.56	0/37.70
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
HC TUMORS SAME ROUTE	0/421 (0%)			
HC TUMORS ALL ROUTES	0/421 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.606N	P=0.496	(e)	(e)
POLY 1.5	P=0.607N	P=0.495	(e)	(e)
POLY 6	P=0.603N	P=0.502	(e)	(e)
COCH-ARM / FISHERS	P=0.605N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.394N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/38.86	1/38.12	1/36.94	0/37.70
POLY-3 PERCENT (g)	0%	2.6%	2.7%	0%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	727 (T)	668	---
HC TUMORS SAME ROUTE	5/419 (1%)			
HC TUMORS ALL ROUTES	5/419 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.543N	P=0.496	P=0.490	(e)
POLY 1.5	P=0.540N	P=0.495	P=0.494	(e)
POLY 6	P=0.551N	P=0.502	P=0.483	(e)
COCH-ARM / FISHERS	P=0.541N	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.404	P=0.158	P=0.158	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Cholangiocarcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/49 (2%)	3/49 (6%)
POLY-3 RATE (b)	1/39.02	1/38.14	1/36.56	3/38.08
POLY-3 PERCENT (g)	2.6%	2.6%	2.7%	7.9%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	1/19 (5%)	0/17 (0%)
FIRST INCIDENCE	684	722	727 (T)	658
HC TUMORS SAME ROUTE	0/423 (0%)			
HC TUMORS ALL ROUTES	0/423 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.153	P=0.756	P=0.747	P=0.295
POLY 1.5	P=0.156	P=0.755	P=0.751	P=0.299
POLY 6	P=0.144	P=0.761N	P=0.737	P=0.285
COCH-ARM / FISHERS	P=0.152	P=0.753N	P=0.747	P=0.301
MAX-ISO-POLY-3	P=0.188	P=0.493	P=0.481	P=0.148
HISTCONT SAME RTE	P=0.004**	P=0.049*	P=0.049*	P=0.010**
HISTCONT ALL RTEs	P=0.004**	P=0.049*	P=0.049*	P=0.010**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/49 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/38.86	0/38.12	1/36.56	1/37.70
POLY-3 PERCENT (g)	5.2%	0%	2.7%	2.7%
TERMINAL (d)	2/25 (8%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	727 (T)	---	727 (T)	727 (T)
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.630N	P=0.241N	P=0.521N	P=0.511N
POLY 1.5	P=0.626N	P=0.243N	P=0.514N	P=0.506N
POLY 6	P=0.644N	P=0.234N	P=0.535N	P=0.522N
COCH-ARM / FISHERS	P=0.633N	P=0.247N	P=0.508N	P=0.508N
MAX-ISO-POLY-3	P=0.295N	P=0.079N	P=0.302N	P=0.290N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/49 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/38.86	1/38.74	1/36.56	1/37.70
POLY-3 PERCENT (g)	5.2%	2.6%	2.7%	2.7%
TERMINAL (d)	2/25 (8%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	727 (T)	527	727 (T)	727 (T)
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.508N	P=0.501N	P=0.521N	P=0.511N
POLY 1.5	P=0.503N	P=0.506N	P=0.514N	P=0.506N
POLY 6	P=0.523N	P=0.488N	P=0.535N	P=0.522N
COCH-ARM / FISHERS	P=0.507N	P=0.500N	P=0.508N	P=0.508N
MAX-ISO-POLY-3	P=0.440N	P=0.281N	P=0.302N	P=0.290N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/49 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/38.86	1/38.74	1/36.56	1/37.70
POLY-3 PERCENT (g)	5.2%	2.6%	2.7%	2.7%
TERMINAL (d)	2/25 (8%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	727 (T)	527	727 (T)	727 (T)
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.508N	P=0.501N	P=0.521N	P=0.511N
POLY 1.5	P=0.503N	P=0.506N	P=0.514N	P=0.506N
POLY 6	P=0.523N	P=0.488N	P=0.535N	P=0.522N
COCH-ARM / FISHERS	P=0.507N	P=0.500N	P=0.508N	P=0.508N
MAX-ISO-POLY-3	P=0.440N	P=0.281N	P=0.302N	P=0.290N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.56	0/37.70
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/421 (1%)			
HC TUMORS ALL ROUTES	2/421 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Lung				
Cystic Keratinizing Epithelioma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	6/50 (12%)	26/49 (53%)	39/49 (80%)
POLY-3 RATE (b)	0/38.86	6/38.61	26/41.54	39/43.57
POLY-3 PERCENT (g)	0%	15.5%	62.6%	89.5%
TERMINAL (d)	0/25 (0%)	4/30 (13%)	9/19 (47%)	17/17 (100%)
FIRST INCIDENCE	---	589	540	481
HC TUMORS SAME ROUTE	0/421 (0%)			
HC TUMORS ALL ROUTES	0/421 (0%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.014*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.014*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.016*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.013*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.004**	P<0.001**	P<0.001**
HISTCONT SAME RTE	P<0.001**	P=0.004**	P<0.001**	P<0.001**
HISTCONT ALL RTEs	P<0.001**	P=0.004**	P<0.001**	P<0.001**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/40.69	1/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	9.8%	2.6%	0%	0%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	372	727 (T)	---	---
HC TUMORS SAME ROUTE	44/423 (10%)			
HC TUMORS ALL ROUTES	44/423 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.060N	P=0.198N	P=0.073N	P=0.069N
POLY 1.5	P=0.060N	P=0.194N	P=0.068N	P=0.065N
POLY 6	P=0.063N	P=0.195N	P=0.083N	P=0.077N
COCH-ARM / FISHERS	P=0.066N	P=0.181N	P=0.059N	P=0.059N
MAX-ISO-POLY-3	P=0.012N*	P=0.101N	P=0.030N*	P=0.027N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/40.89	2/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	12.2%	5.3%	0%	0%
TERMINAL (d)	0/25 (0%)	2/30 (7%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	372	727 (T)	---	---
HC TUMORS SAME ROUTE	52/423 (12%)			
HC TUMORS ALL ROUTES	52/423 (12%)			
STATISTICAL TESTS				
POLY 3	P=0.027N*	P=0.244N	P=0.040N*	P=0.037N*
POLY 1.5	P=0.027N*	P=0.238N	P=0.036N*	P=0.034N*
POLY 6	P=0.030N*	P=0.243N	P=0.047N*	P=0.043N*
COCH-ARM / FISHERS	P=0.031N*	P=0.218N	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.008N**	P=0.145N	P=0.017N*	P=0.015N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	31/50 (62%)	30/50 (60%)	24/50 (48%)	20/50 (40%)
POLY-3 RATE (b)	31/45.03	30/43.02	24/42.46	20/42.27
POLY-3 PERCENT (g)	68.9%	69.7%	56.5%	47.3%
TERMINAL (d)	14/25 (56%)	20/30 (67%)	11/19 (58%)	6/17 (35%)
FIRST INCIDENCE	478	335	273	467
HC TUMORS SAME ROUTE	288/423 (68%)			
HC TUMORS ALL ROUTES	288/423 (68%)			
STATISTICAL TESTS				
POLY 3	P=0.010N**	P=0.558	P=0.155N	P=0.028N*
POLY 1.5	P=0.009N**	P=0.585	P=0.126N	P=0.022N*
POLY 6	P=0.016N*	P=0.538	P=0.225N	P=0.042N*
COCH-ARM / FISHERS	P=0.012N*	P=0.500N	P=0.114N	P=0.022N*
MAX-ISO-POLY-3	P=0.017N*	P=0.463	P=0.113N	P=0.019N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	31/50 (62%)	31/50 (62%)	24/50 (48%)	20/50 (40%)
POLY-3 RATE (b)	31/45.03	31/43.02	24/42.46	20/42.27
POLY-3 PERCENT (g)	68.9%	72.1%	56.5%	47.3%
TERMINAL (d)	14/25 (56%)	21/30 (70%)	11/19 (58%)	6/17 (35%)
FIRST INCIDENCE	478	335	273	467
HC TUMORS SAME ROUTE	292/423 (69%)			
HC TUMORS ALL ROUTES	292/423 (69%)			
STATISTICAL TESTS				
POLY 3	P=0.008N**	P=0.460	P=0.155N	P=0.028N*
POLY 1.5	P=0.007N**	P=0.492	P=0.126N	P=0.022N*
POLY 6	P=0.012N*	P=0.437	P=0.225N	P=0.042N*
COCH-ARM / FISHERS	P=0.010N**	P=0.582N	P=0.114N	P=0.022N*
MAX-ISO-POLY-3	P=0.012N*	P=0.368	P=0.113N	P=0.019N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	32/50 (64%)	31/50 (62%)	24/50 (48%)	20/50 (40%)
POLY-3 RATE (b)	32/45.89	31/43.02	24/42.46	20/42.27
POLY-3 PERCENT (g)	69.7%	72.1%	56.5%	47.3%
TERMINAL (d)	14/25 (56%)	21/30 (70%)	11/19 (58%)	6/17 (35%)
FIRST INCIDENCE	372	335	273	467
HC TUMORS SAME ROUTE	306/423 (72%)			
HC TUMORS ALL ROUTES	306/423 (72%)			
STATISTICAL TESTS				
POLY 3	P=0.006N**	P=0.497	P=0.133N	P=0.022N*
POLY 1.5	P=0.005N**	P=0.544	P=0.100N	P=0.016N*
POLY 6	P=0.010N**	P=0.464	P=0.202N	P=0.035N*
COCH-ARM / FISHERS	P=0.007N**	P=0.500N	P=0.079N	P=0.014N*
MAX-ISO-POLY-3	P=0.010N**	P=0.402	P=0.098N	P=0.015N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)				
Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/38.86	0/38.12	4/37.73	6/39.07
POLY-3 PERCENT (g)	0%	0%	10.6%	15.4%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	---	---	574	551
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.002**	(e)	P=0.055	P=0.015*
POLY 1.5	P=0.002**	(e)	P=0.057	P=0.015*
POLY 6	P=0.002**	(e)	P=0.052	P=0.014*
COCH-ARM / FISHERS	P=0.003**	(e)	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.004**	(e)	P=0.019*	P=0.004**
HISTCONT SAME RTE	P=0.004**	(e)	P=0.019*	P=0.005**
HISTCONT ALL RTEs	P=0.004**	(e)	P=0.019*	P=0.005**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva) Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/38.86	0/38.12	4/37.73	6/39.07
POLY-3 PERCENT (g)	0%	0%	10.6%	15.4%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	---	---	574	551
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.002**	(e)	P=0.055	P=0.015*
POLY 1.5	P=0.002**	(e)	P=0.057	P=0.015*
POLY 6	P=0.002**	(e)	P=0.052	P=0.014*
COCH-ARM / FISHERS	P=0.003**	(e)	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.004**	(e)	P=0.019*	P=0.004**
HISTCONT SAME RTE	P=0.004**	(e)	P=0.019*	P=0.005**
HISTCONT ALL RTEs	P=0.004**	(e)	P=0.019*	P=0.005**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Oral Mucosa				
Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/38.86	0/38.12	4/37.73	6/39.07
POLY-3 PERCENT (g)	0%	0%	10.6%	15.4%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	---	---	574	551
HC TUMORS SAME ROUTE	4/423 (1%)			
HC TUMORS ALL ROUTES	4/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.002**	(e)	P=0.055	P=0.015*
POLY 1.5	P=0.002**	(e)	P=0.057	P=0.015*
POLY 6	P=0.002**	(e)	P=0.052	P=0.014*
COCH-ARM / FISHERS	P=0.003**	(e)	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.004**	(e)	P=0.019*	P=0.004**
HISTCONT SAME RTE	P=0.004**	(e)	P=0.019*	P=0.005**
HISTCONT ALL RTEs	P=0.004**	(e)	P=0.019*	P=0.005**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Ovary				
Thecoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	1/38.12	2/36.72	0/37.78
POLY-3 PERCENT (g)	0%	2.6%	5.5%	0%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	2/19 (11%)	0/17 (0%)
FIRST INCIDENCE	---	727 (T)	727 (T)	---
HC TUMORS SAME ROUTE	0/419 (0%)			
HC TUMORS ALL ROUTES	0/419 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.509N	P=0.496	P=0.224	(e)
POLY 1.5	P=0.502N	P=0.495	P=0.230	(e)
POLY 6	P=0.525N	P=0.502	P=0.214	(e)
COCH-ARM / FISHERS	P=0.500N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.327	P=0.158	P=0.075	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pancreas				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/38.86	0/38.11	0/36.56	0/37.70
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/418 (0%)			
HC TUMORS ALL ROUTES	1/418 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pancreas				
Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/49 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/38.86	0/38.11	1/37.02	0/37.70
POLY-3 PERCENT (g)	2.6%	0%	2.7%	0%
TERMINAL (d)	1/25 (4%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	727 (T)	---	593	---
HC TUMORS SAME ROUTE	1/418 (0%)			
HC TUMORS ALL ROUTES	1/418 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.468N	P=0.504N	P=0.751	P=0.506N
POLY 1.5	P=0.464N	P=0.506N	P=0.753	P=0.504N
POLY 6	P=0.480N	P=0.498N	P=0.744	P=0.513N
COCH-ARM / FISHERS	P=0.466N	P=0.505N	P=0.747	P=0.505N
MAX-ISO-POLY-3	P=0.268N	P=0.162N	P=0.486	P=0.164N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	13/50 (26%)	11/50 (22%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	13/39.56	11/38.21	4/37.40	6/38.41
POLY-3 PERCENT (g)	32.9%	28.8%	10.7%	15.6%
TERMINAL (d)	10/25 (40%)	10/30 (33%)	1/19 (5%)	4/17 (24%)
FIRST INCIDENCE	636	705	611	608
HC TUMORS SAME ROUTE	170/421 (40%)			
HC TUMORS ALL ROUTES	170/421 (40%)			
STATISTICAL TESTS				
POLY 3	P=0.050N*	P=0.442N	P=0.016N*	P=0.061N
POLY 1.5	P=0.050N*	P=0.442N	P=0.015N*	P=0.059N
POLY 6	P=0.057N	P=0.424N	P=0.019N*	P=0.068N
COCH-ARM / FISHERS	P=0.059N	P=0.408N	P=0.016N*	P=0.062N
MAX-ISO-POLY-3	P=0.026N*	P=0.348N	P=0.009N**	P=0.036N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Salivary Glands				
Schwannoma Malignant				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/38.86	0/38.00	0/36.72	0/36.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/416 (0%)			
HC TUMORS ALL ROUTES	0/416 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	1/37.87
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	705
HC TUMORS SAME ROUTE	1/423 (0%)			
HC TUMORS ALL ROUTES	1/423 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.218	(e)	(e)	P=0.495
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.211	(e)	(e)	P=0.489
COCH-ARM / FISHERS	P=0.221	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.126	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	1/37.87
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	705
HC TUMORS SAME ROUTE	1/423 (0%)			
HC TUMORS ALL ROUTES	1/423 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.218	(e)	(e)	P=0.495
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.211	(e)	(e)	P=0.489
COCH-ARM / FISHERS	P=0.221	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.126	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	1/37.87
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	705
HC TUMORS SAME ROUTE	2/423 (1%)			
HC TUMORS ALL ROUTES	2/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.218	(e)	(e)	P=0.495
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.211	(e)	(e)	P=0.489
COCH-ARM / FISHERS	P=0.221	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.126	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
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%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	1/37.87
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	705
HC TUMORS SAME ROUTE	5/423 (1%)			
HC TUMORS ALL ROUTES	5/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.218	(e)	(e)	P=0.495
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.211	(e)	(e)	P=0.489
COCH-ARM / FISHERS	P=0.221	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.126	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	8/423 (2%)			
HC TUMORS ALL ROUTES	8/423 (2%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	1/38.00
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	671
HC TUMORS SAME ROUTE	9/423 (2%)			
HC TUMORS ALL ROUTES	9/423 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.219	(e)	(e)	P=0.496
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.212	(e)	(e)	P=0.490
COCH-ARM / FISHERS	P=0.221	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.126	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/423 (1%)			
HC TUMORS ALL ROUTES	2/423 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	3/423 (1%)			
HC TUMORS ALL ROUTES	3/423 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	3/423 (1%)			
HC TUMORS ALL ROUTES	3/423 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Stomach, Forestomach Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/38.86	1/38.12	0/36.72	4/38.84
POLY-3 PERCENT (g)	0%	2.6%	0%	10.3%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	727 (T)	---	590
HC TUMORS SAME ROUTE	2/423 (1%)			
HC TUMORS ALL ROUTES	2/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.009**	P=0.496	(e)	P=0.059
POLY 1.5	P=0.009**	P=0.495	(e)	P=0.060
POLY 6	P=0.009**	P=0.502	(e)	P=0.057
COCH-ARM / FISHERS	P=0.010**	P=0.500	(e)	P=0.059
MAX-ISO-POLY-3	P=0.008**	P=0.158	(e)	P=0.019*
HISTCONT SAME RTE	P=0.007**	P=0.147	(e)	P=0.014*
HISTCONT ALL RTEs	P=0.007**	P=0.147	(e)	P=0.014*

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Stomach, Forestomach Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	3/38.44
POLY-3 PERCENT (g)	0%	0%	0%	7.8%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	590
HC TUMORS SAME ROUTE	0/423 (0%)			
HC TUMORS ALL ROUTES	0/423 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.008**	(e)	(e)	P=0.116
POLY 1.5	P=0.008**	(e)	(e)	P=0.118
POLY 6	P=0.007**	(e)	(e)	P=0.111
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	P=0.037*
HISTCONT SAME RTE	P=0.004**	(e)	(e)	P=0.009**
HISTCONT ALL RTEs	P=0.004**	(e)	(e)	P=0.009**

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	10/50 (20%)	9/49 (18%)	11/50 (22%)	1/50 (2%)
POLY-3 RATE (b)	10/40.05	9/38.00	11/37.94	1/37.78
POLY-3 PERCENT (g)	25%	23.7%	29%	2.7%
TERMINAL (d)	7/25 (28%)	9/30 (30%)	5/19 (26%)	1/17 (6%)
FIRST INCIDENCE	587	727 (T)	540	727 (T)
HC TUMORS SAME ROUTE	109/418 (26%)			
HC TUMORS ALL ROUTES	109/418 (26%)			
STATISTICAL TESTS				
POLY 3	P=0.003N**	P=0.553N	P=0.442	P=0.005N**
POLY 1.5	P=0.003N**	P=0.549N	P=0.468	P=0.004N**
POLY 6	P=0.005N**	P=0.545N	P=0.399	P=0.006N**
COCH-ARM / FISHERS	P=0.004N**	P=0.520N	P=0.500	P=0.004N**
MAX-ISO-POLY-3	P=0.006N**	P=0.447N	P=0.346	P=0.002N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	11/50 (22%)	9/49 (18%)	11/50 (22%)	1/50 (2%)
POLY-3 RATE (b)	11/40.05	9/38.00	11/37.94	1/37.78
POLY-3 PERCENT (g)	27.5%	23.7%	29%	2.7%
TERMINAL (d)	8/25 (32%)	9/30 (30%)	5/19 (26%)	1/17 (6%)
FIRST INCIDENCE	587	727 (T)	540	727 (T)
HC TUMORS SAME ROUTE	124/418 (30%)			
HC TUMORS ALL ROUTES	124/418 (30%)			
STATISTICAL TESTS				
POLY 3	P=0.002N**	P=0.451N	P=0.541	P=0.002N**
POLY 1.5	P=0.002N**	P=0.449N	P=0.566	P=0.002N**
POLY 6	P=0.003N**	P=0.441N	P=0.499	P=0.003N**
COCH-ARM / FISHERS	P=0.002N**	P=0.421N	P=0.595N	P=0.002N**
MAX-ISO-POLY-3	P=0.004N**	P=0.352N	P=0.440	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/38.86	0/38.00	0/36.72	1/37.78
POLY-3 PERCENT (g)	0%	0%	0%	2.7%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	1/17 (6%)
FIRST INCIDENCE	---	---	---	727 (T)
HC TUMORS SAME ROUTE	2/418 (1%)			
HC TUMORS ALL ROUTES	2/418 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.218	(e)	(e)	P=0.494
POLY 1.5	P=0.221	(e)	(e)	P=0.498
POLY 6	P=0.210	(e)	(e)	P=0.487
COCH-ARM / FISHERS	P=0.222	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.127	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Tissue NOS				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.86	0/38.12	0/36.72	0/37.78
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/30 (0%)	0/19 (0%)	0/17 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/423 (0%)			
HC TUMORS ALL ROUTES	0/423 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Uterus				
Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/38.86	1/38.12	2/37.16	2/38.13
POLY-3 PERCENT (g)	2.6%	2.6%	5.4%	5.3%
TERMINAL (d)	1/25 (4%)	1/30 (3%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	727 (T)	727 (T)	597	632
HC TUMORS SAME ROUTE	5/423 (1%)			
HC TUMORS ALL ROUTES	5/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.391	P=0.757	P=0.484	P=0.493
POLY 1.5	P=0.398	P=0.755	P=0.491	P=0.498
POLY 6	P=0.373	P=0.759N	P=0.473	P=0.484
COCH-ARM / FISHERS	P=0.395	P=0.753N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.436	P=0.494	P=0.271	P=0.276
HISTCONT SAME RTE	P=0.151	P=0.444	P=0.124	P=0.125
HISTCONT ALL RTEs	P=0.151	P=0.444	P=0.124	P=0.125

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	11/50 (22%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	8/39.85	11/38.67	10/38.16	10/38.72
POLY-3 PERCENT (g)	20.1%	28.5%	26.2%	25.8%
TERMINAL (d)	6/25 (24%)	10/30 (33%)	5/19 (26%)	7/17 (41%)
FIRST INCIDENCE	504	560	560	608
HC TUMORS SAME ROUTE	57/423 (14%)			
HC TUMORS ALL ROUTES	57/423 (14%)			
STATISTICAL TESTS				
POLY 3	P=0.460	P=0.272	P=0.353	P=0.366
POLY 1.5	P=0.480	P=0.274	P=0.372	P=0.383
POLY 6	P=0.416	P=0.287	P=0.325	P=0.337
COCH-ARM / FISHERS	P=0.482	P=0.306	P=0.398	P=0.398
MAX-ISO-POLY-3	P=0.396	P=0.195	P=0.263	P=0.273
HISTCONT SAME RTE	P=0.268	P=0.163	P=0.232	P=0.242
HISTCONT ALL RTEs	P=0.268	P=0.163	P=0.232	P=0.242

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	11/50 (22%)	10/50 (20%)	11/50 (22%)
POLY-3 RATE (b)	8/39.85	11/38.67	10/38.16	11/39.19
POLY-3 PERCENT (g)	20.1%	28.5%	26.2%	28.1%
TERMINAL (d)	6/25 (24%)	10/30 (33%)	5/19 (26%)	7/17 (41%)
FIRST INCIDENCE	504	560	560	590
HC TUMORS SAME ROUTE	57/423 (14%)			
HC TUMORS ALL ROUTES	57/423 (14%)			
STATISTICAL TESTS				
POLY 3	P=0.356	P=0.272	P=0.353	P=0.283
POLY 1.5	P=0.370	P=0.274	P=0.372	P=0.295
POLY 6	P=0.323	P=0.287	P=0.325	P=0.261
COCH-ARM / FISHERS	P=0.367	P=0.306	P=0.398	P=0.306
MAX-ISO-POLY-3	P=0.334	P=0.195	P=0.263	P=0.202
HISTCONT SAME RTE	P=0.161	P=0.163	P=0.232	P=0.169
HISTCONT ALL RTEs	P=0.161	P=0.163	P=0.232	P=0.169

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 04/15/2009
 Time Report Requested: 09:57:26
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/38.86	1/38.12	2/36.92	2/37.81
POLY-3 PERCENT (g)	0%	2.6%	5.4%	5.3%
TERMINAL (d)	0/25 (0%)	1/30 (3%)	1/19 (5%)	1/17 (6%)
FIRST INCIDENCE	---	727 (T)	673	721
HC TUMORS SAME ROUTE	6/423 (1%)			
HC TUMORS ALL ROUTES	6/423 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.234	P=0.496	P=0.225	P=0.230
POLY 1.5	P=0.242	P=0.495	P=0.230	P=0.234
POLY 6	P=0.218	P=0.502	P=0.217	P=0.222
COCH-ARM / FISHERS	P=0.243	P=0.500	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.157	P=0.158	P=0.075	P=0.075
HISTCONT SAME RTE	P=0.185	P=0.195	P=0.088	P=0.088
HISTCONT ALL RTEs	P=0.185	P=0.195	P=0.088	P=0.088

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	40/50 (80%)	42/50 (84%)	39/50 (78%)	42/50 (84%)
POLY-3 RATE (b)	40/45.28	42/44.94	39/44.68	42/45.13
POLY-3 PERCENT (g)	88.3%	93.5%	87.3%	93.1%
TERMINAL (d)	22/25 (88%)	29/30 (97%)	17/19 (90%)	17/17 (100%)
FIRST INCIDENCE	478	335	273	467
HC TUMORS SAME ROUTE	375/423 (89%)			
HC TUMORS ALL ROUTES	375/423 (89%)			
STATISTICAL TESTS				
POLY 3	P=0.354	P=0.291	P=0.576N	P=0.314
POLY 1.5	P=0.400	P=0.305	P=0.527N	P=0.360
POLY 6	P=0.288	P=0.291	P=0.660	P=0.255
COCH-ARM / FISHERS	P=0.408	P=0.398	P=0.500N	P=0.398
MAX-ISO-POLY-3	P=0.296	P=0.167	P=0.429N	P=0.182
HISTCONT SAME RTE	P=0.355	P=0.206	P=1.000	P=0.227
HISTCONT ALL RTEs	P=0.355	P=0.206	P=1.000	P=0.227

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 3,3',4,4'-Tetrachloroazobenzene
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	13/50 (26%)	10/50 (20%)	12/50 (24%)	12/50 (24%)
POLY-3 RATE (b)	13/42.25	10/39.32	12/39.14	12/40.68
POLY-3 PERCENT (g)	30.8%	25.4%	30.7%	29.5%
TERMINAL (d)	5/25 (20%)	7/30 (23%)	5/19 (26%)	3/17 (18%)
FIRST INCIDENCE	372	527	574	551
HC TUMORS SAME ROUTE	113/423 (27%)			
HC TUMORS ALL ROUTES	113/423 (27%)			
STATISTICAL TESTS				
POLY 3	P=0.532	P=0.386N	P=0.592N	P=0.545N
POLY 1.5	P=0.542	P=0.372N	P=0.557N	P=0.526N
POLY 6	P=0.507	P=0.381N	P=0.561	P=0.570N
COCH-ARM / FISHERS	P=0.534	P=0.318N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.638N	P=0.302N	P=0.495N	P=0.449N
HISTCONT SAME RTE	P=0.775	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.775	P=1.000	P=1.000	P=1.000

TDMS No. 88148 - 06
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(SD)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	44/50 (88%)	44/50 (88%)	42/50 (84%)	44/50 (88%)
POLY-3 RATE (b)	44/47.48	44/45.50	42/45.67	44/46.08
POLY-3 PERCENT (g)	92.7%	96.7%	92%	95.5%
TERMINAL (d)	23/25 (92%)	30/30 (100%)	18/19 (95%)	17/17 (100%)
FIRST INCIDENCE	372	335	273	467
HC TUMORS SAME ROUTE	399/423 (94%)			
HC TUMORS ALL ROUTES	399/423 (94%)			
STATISTICAL TESTS				
POLY 3	P=0.476	P=0.318	P=0.618N	P=0.437
POLY 1.5	P=0.534	P=0.405	P=0.511N	P=0.521
POLY 6	P=0.427	P=0.262	P=0.659	P=0.376
COCH-ARM / FISHERS	P=0.554	P=0.620N	P=0.387N	P=0.620N
MAX-ISO-POLY-3	P=0.394	P=0.159	P=0.441N	P=0.255
HISTCONT SAME RTE	P=0.473	P=0.197	P=1.000	P=0.326
HISTCONT ALL RTEs	P=0.473	P=0.197	P=1.000	P=0.326

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
(b) Number of tumor-bearing animals/Poly-3 number
(d) Observed incidence at terminal kill.
(e) Value of Statistic cannot be computed.
(f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
(g) Poly-3 adjusted lifetime tumor incidence.
(h) Value of Historical Controls statistic is only calculated when Poly-3 trend is positive and when there is more than one tumor in the treatment groups.
(I) Interim sacrifice
(T) Terminal sacrifice
Tumor rates based on numbers of animals necropsied.
* To the right of any statistical result, indicates significance at ($P \leq 0.05$).
** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
N Indicates a negative trend for all tests
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***