



**TDMS No.** 20304 - 01  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/SD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
**Time Report Requested:** 13:59:33  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

### **HISTORICAL CONTROL STUDIES** **From October 2007 Report**

#### **SAME ROUTE**

96020-01 -- TEF evaluation (Binary mixture; PCB 126/PCB 153) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-04 -- TEF evaluation (Dioxin mixture) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96022-02 -- Tef Evaluation (Pcb Mixture; Pcb 126/Pcb 118) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-05 -- TEF evaluation (PECDF (Pentachlorodibenzofuran)) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-03 -- TEF evaluation (TCDD) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-01 -- Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96021-01 -- Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl) (GAVAGE CORN OIL : ACETONE (99 : 1))

#### **ALL ROUTES**

96020-01 -- TEF evaluation (Binary mixture; PCB 126/PCB 153) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-04 -- TEF evaluation (Dioxin mixture) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96022-02 -- Tef Evaluation (Pcb Mixture; Pcb 126/Pcb 118) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-05 -- TEF evaluation (PECDF (Pentachlorodibenzofuran)) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-03 -- TEF evaluation (TCDD) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96007-01 -- Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl) (GAVAGE CORN OIL : ACETONE (99 : 1))  
96021-01 -- Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl) (GAVAGE CORN OIL : ACETONE (99 : 1))

**TDMS No.** 20304 - 01  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/SD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
**Time Report Requested:** 13:59:33  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

**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  
Kidney  
Liver  
Lung  
Ovary  
Pancreas  
Parathyroid Gland  
Pituitary Gland  
Thyroid Gland

**TDMS No.** 20304 - 01  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/SD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
**Time Report Requested:** 13:59:33  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF TEF evaluation (PCB 118)**

**FEMALE RATS**

**Organ**

Adrenal Medulla  
Liver

Lung  
Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

Thyroid Gland: C-Cell  
Uterus  
All Organs

**Morphology**

Pheochromocytoma Benign  
Cholangiocarcinoma  
Hepatocellular Adenoma  
Hepatocellular Carcinoma or Hepatocellular Adenoma  
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma  
Hepatocholangioma  
Cystic Keratinizing Epithelioma  
Fibroadenoma  
Fibroma, Fibroadenoma, Carcinoma, or Adenoma  
Adenoma  
Carcinoma or Adenoma  
Carcinoma or Adenoma  
Carcinoma  
Benign Tumors  
Malignant Tumors

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Adrenal Cortex  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/52 (4%)	4/49 (8%)	1/49 (2%)
POLY-3 RATE (b)	2/35.67	4/39.54	1/39.96
POLY-3 PERCENT (g)	5.6%	10.1%	2.5%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	0/25 (0%)
FIRST INCIDENCE	658	673	671
HC TUMORS SAME RTE	2/369 (1%)		
HC TUMORS ALL RTES	2/369 (1%)		

**STATISTICAL TESTS**

POLY 3	P=0.608	P=0.385	P=0.460N
POLY 1.5	P=0.576	P=0.348	P=0.483N
POLY 6	P=0.639	P=0.425	P=0.439N
COCH-ARM / FISHERS	P=0.524	P=0.311	P=0.522N
MAX-ISO-POLY-3	(e)	P=0.251	P=0.261N
HISTCONT SAME RTE	(e)	P=0.022*	P=0.320
HISTCONT ALL RTES	(e)	P=0.022*	P=0.320

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	3/52 (6%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	3/36.16	0/39.16	2/39.73
POLY-3 PERCENT (g)	8.3%	0%	5%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	512	---	733 (T)
HC TUMORS SAME RTE	28/368 (8%)		
HC TUMORS ALL RTES	28/368 (8%)		

**STATISTICAL TESTS**

POLY 3	P=0.187N	P=0.104N	P=0.457N
POLY 1.5	P=0.206N	P=0.116N	P=0.483N
POLY 6	P=0.169N	P=0.093N	P=0.433N
COCH-ARM / FISHERS	P=0.232N	P=0.133N	P=0.528N
MAX-ISO-POLY-3	(e)	P=0.039N*	P=0.296N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

Liver  
 Cholangiocarcinoma

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	36/49 (73%)	29/49 (59%)
POLY-3 RATE (b)	0/35.12	36/42.58	29/42.62
POLY-3 PERCENT (g)	0%	84.6%	68.1%
TERMINAL (d)	0/21 (0%)	22/25 (88%)	17/25 (68%)
FIRST INCIDENCE	---	433	567
HC TUMORS SAME RTE	0/371 (0%)		
HC TUMORS ALL RTES	0/371 (0%)		

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**
HISTCONT SAME RTE	(e)	P<0.001**	P<0.001**
HISTCONT ALL RTES	(e)	P<0.001**	P<0.001**

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

**Liver  
 Hepatocellular Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	24/49 (49%)	1/49 (2%)
POLY-3 RATE (b)	0/35.12	24/40.49	1/39.73
POLY-3 PERCENT (g)	0%	59.3%	2.5%
TERMINAL (d)	0/21 (0%)	17/25 (68%)	1/25 (4%)
FIRST INCIDENCE	---	617	733 (T)
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.525
POLY 1.5	P<0.001**	P<0.001**	P=0.511
POLY 6	P<0.001**	P<0.001**	P=0.539
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.485
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.191
HISTCONT SAME RTE	(e)	P<0.001**	P=0.241
HISTCONT ALL RTES	(e)	P<0.001**	P=0.241



TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

**Liver  
 Hepatocellular Carcinoma or Hepatocellular Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	24/49 (49%)	1/49 (2%)
POLY-3 RATE (b)	0/35.12	24/40.49	1/39.73
POLY-3 PERCENT (g)	0%	59.3%	2.5%
TERMINAL (d)	0/21 (0%)	17/25 (68%)	1/25 (4%)
FIRST INCIDENCE	---	617	733 (T)
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.525
POLY 1.5	P<0.001**	P<0.001**	P=0.511
POLY 6	P<0.001**	P<0.001**	P=0.539
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.485
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.191
HISTCONT SAME RTE	(e)	P<0.001**	P=0.241
HISTCONT ALL RTES	(e)	P<0.001**	P=0.241

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

Liver  
 Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	24/49 (49%)	1/49 (2%)
POLY-3 RATE (b)	0/35.12	24/40.49	1/39.73
POLY-3 PERCENT (g)	0%	59.3%	2.5%
TERMINAL (d)	0/21 (0%)	17/25 (68%)	1/25 (4%)
FIRST INCIDENCE	---	617	733 (T)
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.525
POLY 1.5	P<0.001**	P<0.001**	P=0.511
POLY 6	P<0.001**	P<0.001**	P=0.539
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.485
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.191
HISTCONT SAME RTE	(e)	P<0.001**	P=0.241
HISTCONT ALL RTES	(e)	P<0.001**	P=0.241

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

Liver  
 Hepatocholangioma

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	4/49 (8%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	4/39.43	0/39.73
POLY-3 PERCENT (g)	0%	10.1%	0%
TERMINAL (d)	0/21 (0%)	3/25 (12%)	0/25 (0%)
FIRST INCIDENCE	---	687	---
HC TUMORS SAME RTE	0/371 (0%)		
HC TUMORS ALL RTES	0/371 (0%)		

**STATISTICAL TESTS**

POLY 3	P=0.215	P=0.076	(e)
POLY 1.5	P=0.197	P=0.064	(e)
POLY 6	P=0.235	P=0.091	(e)
COCH-ARM / FISHERS	P=0.173	P=0.052	(e)
MAX-ISO-POLY-3	(e)	P=0.034*	(e)
HISTCONT SAME RTE	(e)	P=0.011*	(e)
HISTCONT ALL RTES	(e)	P=0.011*	(e)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

**Lung  
 Cystic Keratinizing Epithelioma**

**TUMOR RATES**

OVERALL (a)	0/51 (0%)	20/50 (40%)	0/50 (0%)
POLY-3 RATE (b)	0/35.05	20/40.61	0/39.74
POLY-3 PERCENT (g)	0%	49.2%	0%
TERMINAL (d)	0/21 (0%)	12/25 (48%)	0/25 (0%)
FIRST INCIDENCE	---	617	---
HC TUMORS SAME RTE	0/370 (0%)		
HC TUMORS ALL RTES	0/370 (0%)		

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	(e)
POLY 1.5	P<0.001**	P<0.001**	(e)
POLY 6	P<0.001**	P<0.001**	(e)
COCH-ARM / FISHERS	P<0.001**	P<0.001**	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)
HISTCONT SAME RTE	(e)	P<0.001**	(e)
HISTCONT ALL RTES	(e)	P<0.001**	(e)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

**Mammary Gland  
 Carcinoma**

TUMOR RATES	#	#	#
OVERALL (a)	2/52 (4%)	2/52 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/35.79	2/40.64	2/40.85
POLY-3 PERCENT (g)	5.6%	4.9%	4.9%
TERMINAL (d)	1/21 (5%)	1/25 (4%)	0/25 (0%)
FIRST INCIDENCE	503	484	545
HC TUMORS SAME RTE	42/371 (11%)		
HC TUMORS ALL RTES	42/371 (11%)		

**STATISTICAL TESTS**

POLY 3	P=0.613N	P=0.648N	P=0.646N
POLY 1.5	P=0.645N	P=0.676N	P=0.672N
POLY 6	P=0.579N	P=0.617N	P=0.616N
COCH-ARM / FISHERS	P=0.662	P=0.691N	P=0.676
MAX-ISO-POLY-3	(e)	P=0.450N	P=0.449N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Mammary Gland  
 Fibroadenoma**

---

TUMOR RATES	#	#	#
OVERALL (a)	25/52 (48%)	8/52 (15%)	17/50 (34%)
POLY-3 RATE (b)	25/43.94	8/41.18	17/43.27
POLY-3 PERCENT (g)	56.9%	19.4%	39.3%
TERMINAL (d)	8/21 (38%)	5/25 (20%)	9/25 (36%)
FIRST INCIDENCE	320	433	302
HC TUMORS SAME RTE	263/371 (71%)		
HC TUMORS ALL RTEs	263/371 (71%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.002N**	P<0.001N**	P=0.069N
POLY 1.5	P=0.002N**	P<0.001N**	P=0.079N
POLY 6	P=0.002N**	P<0.001N**	P=0.068N
COCH-ARM / FISHERS	P=0.003N**	P<0.001N**	P=0.107N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.045N*
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTEs	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

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

---

TUMOR RATES	#	#	#
OVERALL (a)	27/52 (52%)	10/52 (19%)	18/50 (36%)
POLY-3 RATE (b)	27/44.61	10/41.89	18/43.86
POLY-3 PERCENT (g)	60.5%	23.9%	41%
TERMINAL (d)	9/21 (43%)	6/25 (24%)	9/25 (36%)
FIRST INCIDENCE	320	433	302
HC TUMORS SAME RTE	279/371 (75%)		
HC TUMORS ALL RTES	279/371 (75%)		

**STATISTICAL TESTS**

---

POLY 3	P<0.001N**	P<0.001N**	P=0.046N*
POLY 1.5	P=0.002N**	P<0.001N**	P=0.054N
POLY 6	P<0.001N**	P<0.001N**	P=0.045N*
COCH-ARM / FISHERS	P=0.002N**	P<0.001N**	P=0.078N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.029N*
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

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

---

TUMOR RATES	#	#	#
OVERALL (a)	0/52 (0%)	2/52 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/35.12	2/40.71	0/39.74
POLY-3 PERCENT (g)	0%	4.9%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	620	---
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.437	P=0.271	(e)
POLY 1.5	P=0.420	P=0.251	(e)
POLY 6	P=0.455	P=0.296	(e)
COCH-ARM / FISHERS	P=0.396	P=0.248	(e)
MAX-ISO-POLY-3	(e)	P=0.107	(e)
HISTCONT SAME RTE	(e)	P=0.083	(e)
HISTCONT ALL RTES	(e)	P=0.083	(e)

---



TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

TUMOR RATES	#	#	#
OVERALL (a)	0/52 (0%)	2/52 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/35.12	2/40.71	0/39.74
POLY-3 PERCENT (g)	0%	4.9%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	620	---
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P=0.437	P=0.271	(e)
POLY 1.5	P=0.420	P=0.251	(e)
POLY 6	P=0.455	P=0.296	(e)
COCH-ARM / FISHERS	P=0.396	P=0.248	(e)
MAX-ISO-POLY-3	(e)	P=0.107	(e)
HISTCONT SAME RTE	(e)	P=0.083	(e)
HISTCONT ALL RTES	(e)	P=0.083	(e)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Oral Mucosa  
 Squamous Cell Carcinoma**

---

TUMOR RATES	#	#	#
OVERALL (a)	0/52 (0%)	2/52 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/35.12	2/40.71	0/39.74
POLY-3 PERCENT (g)	0%	4.9%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	620	---
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.437	P=0.271	(e)
POLY 1.5	P=0.420	P=0.251	(e)
POLY 6	P=0.455	P=0.296	(e)
COCH-ARM / FISHERS	P=0.396	P=0.248	(e)
MAX-ISO-POLY-3	(e)	P=0.107	(e)
HISTCONT SAME RTE	(e)	P=0.083	(e)
HISTCONT ALL RTES	(e)	P=0.083	(e)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Pancreas  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	2/47 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	2/37.63	0/39.73
POLY-3 PERCENT (g)	0%	5.3%	0%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	---
HC TUMORS SAME RTE	1/366 (0%)		
HC TUMORS ALL RTES	1/366 (0%)		

**STATISTICAL TESTS**

POLY 3	P=0.428	P=0.252	(e)
POLY 1.5	P=0.410	P=0.233	(e)
POLY 6	P=0.446	P=0.275	(e)
COCH-ARM / FISHERS	P=0.381	P=0.223	(e)
MAX-ISO-POLY-3	(e)	P=0.095	(e)
HISTCONT SAME RTE	(e)	P=0.030*	(e)
HISTCONT ALL RTES	(e)	P=0.030*	(e)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

**TUMOR RATES**

OVERALL (a)	17/52 (33%)	4/52 (8%)	12/50 (24%)
POLY-3 RATE (b)	17/37.11	4/39.93	12/40.05
POLY-3 PERCENT (g)	45.8%	10%	30%
TERMINAL (d)	11/21 (52%)	4/25 (16%)	10/25 (40%)
FIRST INCIDENCE	440	733 (T)	672
HC TUMORS SAME RTE	153/369 (42%)		
HC TUMORS ALL RTES	153/369 (42%)		

**STATISTICAL TESTS**

POLY 3	P=0.003N**	P<0.001N**	P=0.107N
POLY 1.5	P=0.006N**	P<0.001N**	P=0.149N
POLY 6	P=0.002N**	P<0.001N**	P=0.076N
COCH-ARM / FISHERS	P=0.013N*	P<0.001N**	P=0.226N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.078N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

**TUMOR RATES**

OVERALL (a)	2/52 (4%)	0/52 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/35.78	0/39.93	1/39.74
POLY-3 PERCENT (g)	5.6%	0%	2.5%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	1/25 (4%)
FIRST INCIDENCE	512	---	733 (T)
HC TUMORS SAME RTE	1/369 (0%)		
HC TUMORS ALL RTES	1/369 (0%)		

**STATISTICAL TESTS**

POLY 3	P=0.242N	P=0.213N	P=0.463N
POLY 1.5	P=0.259N	P=0.228N	P=0.484N
POLY 6	P=0.225N	P=0.198N	P=0.442N
COCH-ARM / FISHERS	P=0.274N	P=0.248N	P=0.515N
MAX-ISO-POLY-3	(e)	P=0.075N	P=0.262N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

**TUMOR RATES**

OVERALL (a)	19/52 (37%)	4/52 (8%)	13/50 (26%)
POLY-3 RATE (b)	19/37.77	4/39.93	13/40.05
POLY-3 PERCENT (g)	50.3%	10%	32.5%
TERMINAL (d)	12/21 (57%)	4/25 (16%)	11/25 (44%)
FIRST INCIDENCE	440	733 (T)	672
HC TUMORS SAME RTE	154/369 (42%)		
HC TUMORS ALL RTES	154/369 (42%)		

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P<0.001N**	P=0.077N
POLY 1.5	P=0.002N**	P<0.001N**	P=0.110N
POLY 6	P<0.001N**	P<0.001N**	P=0.053N
COCH-ARM / FISHERS	P=0.005N**	P<0.001N**	P=0.175N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.054N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Skin  
 Fibroma**

---

TUMOR RATES	#	#	#
OVERALL (a)	2/52 (4%)	0/52 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/35.97	0/39.93	1/40.14
POLY-3 PERCENT (g)	5.6%	0%	2.5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	561	---	617
HC TUMORS SAME RTE	6/371 (2%)		
HC TUMORS ALL RTES	6/371 (2%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.242N	P=0.214N	P=0.462N
POLY 1.5	P=0.259N	P=0.228N	P=0.483N
POLY 6	P=0.227N	P=0.200N	P=0.441N
COCH-ARM / FISHERS	P=0.274N	P=0.248N	P=0.515N
MAX-ISO-POLY-3	(e)	P=0.075N	P=0.261N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

TUMOR RATES	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/35.12	0/39.93	2/39.74
POLY-3 PERCENT (g)	0%	0%	5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	---	---	733 (T)
HC TUMORS SAME RTE	2/371 (1%)		
HC TUMORS ALL RTES	2/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P=0.425	(e)	P=0.265
POLY 1.5	P=0.404	(e)	P=0.250
POLY 6	P=0.448	(e)	P=0.283
COCH-ARM / FISHERS	P=0.396	(e)	P=0.238
MAX-ISO-POLY-3	(e)	(e)	P=0.104
HISTCONT SAME RTE	(e)	(e)	P=0.043*
HISTCONT ALL RTES	(e)	(e)	P=0.043*



TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	9/51 (18%)	6/49 (12%)	5/50 (10%)
POLY-3 RATE (b)	9/37.33	6/39.64	5/40.22
POLY-3 PERCENT (g)	24.1%	15.1%	12.4%
TERMINAL (d)	5/21 (24%)	4/25 (16%)	4/25 (16%)
FIRST INCIDENCE	503	620	589
HC TUMORS SAME RTE	100/367 (27%)		
HC TUMORS ALL RTES	100/367 (27%)		

**STATISTICAL TESTS**

POLY 3	P=0.134N	P=0.239N	P=0.147N
POLY 1.5	P=0.160N	P=0.279N	P=0.170N
POLY 6	P=0.109N	P=0.199N	P=0.125N
COCH-ARM / FISHERS	P=0.194N	P=0.318N	P=0.206N
MAX-ISO-POLY-3	(e)	P=0.168N	P=0.098N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Thyroid Gland: C-Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	2/51 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/35.05	0/39.07	0/39.74
POLY-3 PERCENT (g)	5.7%	0%	0%
TERMINAL (d)	2/21 (10%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	---	---
HC TUMORS SAME RTE	15/367 (4%)		
HC TUMORS ALL RTES	15/367 (4%)		

**STATISTICAL TESTS**

POLY 3	P=0.091N	P=0.213N	P=0.210N
POLY 1.5	P=0.098N	P=0.229N	P=0.223N
POLY 6	P=0.083N	P=0.196N	P=0.195N
COCH-ARM / FISHERS	P=0.109N	P=0.258N	P=0.252N
MAX-ISO-POLY-3	(e)	P=0.077N	P=0.076N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

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

**TUMOR RATES**

OVERALL (a)	11/51 (22%)	6/49 (12%)	5/50 (10%)
POLY-3 RATE (b)	11/37.33	6/39.64	5/40.22
POLY-3 PERCENT (g)	29.5%	15.1%	12.4%
TERMINAL (d)	7/21 (33%)	4/25 (16%)	4/25 (16%)
FIRST INCIDENCE	503	620	589
HC TUMORS SAME RTE	113/367 (31%)		
HC TUMORS ALL RTES	113/367 (31%)		

**STATISTICAL TESTS**

POLY 3	P=0.038N*	P=0.104N	P=0.054N
POLY 1.5	P=0.051N	P=0.133N	P=0.069N
POLY 6	P=0.028N*	P=0.078N	P=0.042N*
COCH-ARM / FISHERS	P=0.071N	P=0.165N	P=0.093N
MAX-ISO-POLY-3	(e)	P=0.069N	P=0.034N*
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

**Uterus  
 Carcinoma**

TUMOR RATES	#	#	#
OVERALL (a)	2/52 (4%)	3/52 (6%)	11/50 (22%)
POLY-3 RATE (b)	2/35.12	3/40.16	11/40.86
POLY-3 PERCENT (g)	5.7%	7.5%	26.9%
TERMINAL (d)	2/21 (10%)	2/25 (8%)	6/25 (24%)
FIRST INCIDENCE	733 (T)	672	642
HC TUMORS SAME RTE	3/371 (1%)		
HC TUMORS ALL RTES	3/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P=0.079	P=0.561	P=0.014*
POLY 1.5	P=0.058	P=0.524	P=0.009**
POLY 6	P=0.108	P=0.602	P=0.022*
COCH-ARM / FISHERS	P=0.053	P=0.500	P=0.006**
MAX-ISO-POLY-3	(e)	P=0.385	P=0.010**
HISTCONT SAME RTE	(e)	P=0.045*	P=0.008**
HISTCONT ALL RTES	(e)	P=0.045*	P=0.008**

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Uterus  
 Polyp Stromal**

---

TUMOR RATES	#	#	#
OVERALL (a)	3/52 (6%)	6/52 (12%)	4/50 (8%)
POLY-3 RATE (b)	3/35.9	6/40.56	4/39.74
POLY-3 PERCENT (g)	8.4%	14.8%	10.1%
TERMINAL (d)	1/21 (5%)	4/25 (16%)	4/25 (16%)
FIRST INCIDENCE	617	617	733 (T)
HC TUMORS SAME RTE	54/371 (15%)		
HC TUMORS ALL RTES	54/371 (15%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.375	P=0.303	P=0.556
POLY 1.5	P=0.335	P=0.264	P=0.525
POLY 6	P=0.416	P=0.347	P=0.585
COCH-ARM / FISHERS	P=0.293	P=0.244	P=0.478
MAX-ISO-POLY-3	(e)	P=0.206	P=0.403
HISTCONT SAME RTE	(e)	P=0.260	P=0.523
HISTCONT ALL RTES	(e)	P=0.260	P=0.523

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**Uterus  
 Schwannoma Malignant**

---

TUMOR RATES	#	#	#
OVERALL (a)	1/52 (2%)	1/52 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/35.36	1/39.99	2/40.51
POLY-3 PERCENT (g)	2.8%	2.5%	4.9%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	669	718	567
HC TUMORS SAME RTE	3/371 (1%)		
HC TUMORS ALL RTES	3/371 (1%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.612	P=0.733N	P=0.547
POLY 1.5	P=0.585	P=0.750N	P=0.522
POLY 6	P=0.639	P=0.714N	P=0.574
COCH-ARM / FISHERS	P=0.564	P=0.752N	P=0.485
MAX-ISO-POLY-3	(e)	P=0.466N	P=0.332
HISTCONT SAME RTE	(e)	P=0.288	P=0.058
HISTCONT ALL RTES	(e)	P=0.288	P=0.058

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

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

TUMOR RATES	#	#	#
OVERALL (a)	2/52 (4%)	3/52 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/36.11	3/40.29	0/39.74
POLY-3 PERCENT (g)	5.5%	7.5%	0%
TERMINAL (d)	1/21 (5%)	1/25 (4%)	0/25 (0%)
FIRST INCIDENCE	119	673	---
HC TUMORS SAME RTE	4/371 (1%)		
HC TUMORS ALL RTES	4/371 (1%)		

**STATISTICAL TESTS**

POLY 3	P=0.516N	P=0.550	P=0.216N
POLY 1.5	P=0.541N	P=0.515	P=0.230N
POLY 6	P=0.489N	P=0.590	P=0.202N
COCH-ARM / FISHERS	P=0.572N	P=0.500	P=0.257N
MAX-ISO-POLY-3	(e)	P=0.374	P=0.077N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**All Organs  
 Benign Tumors**

---

TUMOR RATES	#	#	#
OVERALL (a)	43/52 (83%)	36/52 (69%)	30/50 (60%)
POLY-3 RATE (b)	43/47.38	36/43.7	30/43.98
POLY-3 PERCENT (g)	90.8%	82.4%	68.2%
TERMINAL (d)	19/21 (91%)	23/25 (92%)	19/25 (76%)
FIRST INCIDENCE	320	433	302
HC TUMORS SAME RTE	332/371 (90%)		
HC TUMORS ALL RTEs	332/371 (90%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.013N*	P=0.166N	P=0.003N**
POLY 1.5	P=0.015N*	P=0.168N	P=0.004N**
POLY 6	P=0.016N*	P=0.187N	P=0.004N**
COCH-ARM / FISHERS	P=0.016N*	P=0.084N	P=0.010N**
MAX-ISO-POLY-3	(e)	P=0.103N	P=0.002N**
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTEs	(e)	(h)	(h)

---



TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**All Organs  
 Malignant Tumors**

---

TUMOR RATES	#	#	#
OVERALL (a)	15/52 (29%)	39/52 (75%)	37/50 (74%)
POLY-3 RATE (b)	15/38.5	39/44.9	37/44.7
POLY-3 PERCENT (g)	39%	86.9%	82.8%
TERMINAL (d)	9/21 (43%)	22/25 (88%)	20/25 (80%)
FIRST INCIDENCE	119	433	545
HC TUMORS SAME RTE	98/371 (26%)		
HC TUMORS ALL RTES	98/371 (26%)		

**STATISTICAL TESTS**

---

POLY 3	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**
HISTCONT SAME RTE	(e)	P<0.001**	P<0.001**
HISTCONT ALL RTES	(e)	P<0.001**	P<0.001**

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/SD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 13:59:33  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

---

DOSE	0 UG/KG	4600 UG/KG	Females
			4600 UG/KG STOP

---

**All Organs  
 Malignant and Benign Tumors**

---

TUMOR RATES	#	#	#
OVERALL (a)	48/52 (92%)	45/52 (87%)	44/50 (88%)
POLY-3 RATE (b)	48/49.26	45/46.15	44/46.95
POLY-3 PERCENT (g)	97.4%	97.5%	93.7%
TERMINAL (d)	21/21 (100%)	25/25 (100%)	23/25 (92%)
FIRST INCIDENCE	119	433	302
HC TUMORS SAME RTE	351/371 (95%)		
HC TUMORS ALL RTES	351/371 (95%)		

**STATISTICAL TESTS**

---

POLY 3	P=0.449N	P=0.809	P=0.323N
POLY 1.5	P=0.506N	P=0.680	P=0.378N
POLY 6	P=0.374N	P=0.910N	P=0.259N
COCH-ARM / FISHERS	P=0.250N	P=0.263N	P=0.346N
MAX-ISO-POLY-3	(e)	P=0.487	P=0.150N
HISTCONT SAME RTE	(e)	(h)	(h)
HISTCONT ALL RTES	(e)	(h)	(h)

---

**TDMS No.** 20304 - 01  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/SD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
**Time Report Requested:** 13:59:33  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

## **LEGEND**

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