

**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:** 07/17/2008  
**Time Report Requested:** 11:19:09  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

C\_T\_nostop

<b>C Number:</b>	C20304		
<b>Lock Date:</b>	10/12/2006		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC	25018 DACC	
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 001 0 UG/KG	Include 004 100 UG/KG	Include 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Include 008 4600 UG/KG
<b>Study Gender:</b>	Female		
<b>TDMSE Version:</b>	2.0.0		

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## 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))

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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  
Thymus  
Thyroid Gland

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF TEF evaluation (PCB 118)**

**FEMALE RATS**

<b><u>Organ</u></b>	<b><u>Morphology</u></b>
Adrenal Medulla	Pheochromocytoma Benign Pheochromocytoma: Benign, Complex, Malignant, NOS
Liver	Cholangiocarcinoma Hepatocellular Adenoma Hepatocellular Carcinoma or Hepatocellular Adenoma Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma Hepatocholangioma
Lung	Cystic Keratinizing Epithelioma
Mammary Gland	Fibroadenoma Fibroma, Fibroadenoma or Adenoma Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Pituitary Gland: Pars Distalis or Unspecified Site	Adenoma Carcinoma Carcinoma or Adenoma
Thyroid Gland: C-Cell	Carcinoma or Adenoma
Uterus	Polyp Stromal Squamous Cell Carcinoma
All Organs	Malignant Tumors

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Cortex  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	2/52 (4%)	2/52 (4%)	0/52 (0%)	2/51 (4%)	0/52 (0%)	4/49 (8%)
POLY-3 RATE (b)	2/35.67	2/35.7	0/37.83	2/41.85	0/39.83	4/39.54
POLY-3 PERCENT (g)	5.6%	5.6%	0%	4.8%	0%	10.1%
TERMINAL (d)	0/21 (0%)	2/20 (10%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	2/25 (8%)
FIRST INCIDENCE	658	733 (T)	---	731	---	673
HC TUMORS SAME RTE	2/369 (1%)					
HC TUMORS ALL RTES	2/369 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.079	P=0.695N	P=0.223N	P=0.635N	P=0.213N	P=0.385
POLY 1.5	P=0.073	P=0.690	P=0.232N	P=0.661N	P=0.222N	P=0.348
POLY 6	P=0.085	P=0.692N	P=0.214N	P=0.605N	P=0.203N	P=0.425
COCH-ARM / FISHERS	P=0.067	P=0.691N	P=0.248N	P=0.684	P=0.248N	P=0.311
MAX-ISO-POLY-3	P=0.145	P=0.499N	P=0.075N	P=0.440N	P=0.075N	P=0.249
HISTCONT SAME RTE	P=0.019*	P=0.102	(e)	P=0.098	(e)	P=0.022*
HISTCONT ALL RTES	P=0.019*	P=0.102	(e)	P=0.098	(e)	P=0.022*

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	3/52 (6%)	1/52 (2%)	3/52 (6%)	2/52 (4%)	2/52 (4%)	0/49 (0%)
POLY-3 RATE (b)	3/36.16	1/35.7	3/37.83	2/42.41	2/39.89	0/39.16
POLY-3 PERCENT (g)	8.3%	2.8%	7.9%	4.7%	5%	0%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	3/25 (12%)	2/30 (7%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	512	733 (T)	733 (T)	733 (T)	718	---
HC TUMORS SAME RTE	28/368 (8%)					
HC TUMORS ALL RTEs	28/368 (8%)					

**STATISTICAL TESTS**

POLY 3	P=0.105N	P=0.308N	P=0.643N	P=0.428N	P=0.455N	P=0.104N
POLY 1.5	P=0.115N	P=0.312N	P=0.656N	P=0.455N	P=0.473N	P=0.116N
POLY 6	P=0.096N	P=0.304N	P=0.625N	P=0.397N	P=0.434N	P=0.093N
COCH-ARM / FISHERS	P=0.129N	P=0.309N	P=0.661N	P=0.500N	P=0.500N	P=0.133N
MAX-ISO-POLY-3	P=0.101N	P=0.156N	P=0.477N	P=0.275N	P=0.293N	P=0.039N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

**TUMOR RATES**

OVERALL (a)	3/52 (6%)	1/52 (2%)	4/52 (8%)	3/52 (6%)	3/52 (6%)	0/49 (0%)
POLY-3 RATE (b)	3/36.16	1/35.7	4/37.83	3/42.41	3/40.82	0/39.16
POLY-3 PERCENT (g)	8.3%	2.8%	10.6%	7.1%	7.4%	0%
TERMINAL (d)	1/21 (5%)	1/20 (5%)	4/25 (16%)	3/30 (10%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	512	733 (T)	733 (T)	733 (T)	298	---
HC TUMORS SAME RTE	30/368 (8%)					
HC TUMORS ALL RTEs	30/368 (8%)					

**STATISTICAL TESTS**

POLY 3	P=0.077N	P=0.308N	P=0.525	P=0.587N	P=0.606N	P=0.104N
POLY 1.5	P=0.089N	P=0.312N	P=0.508	P=0.616N	P=0.628N	P=0.116N
POLY 6	P=0.068N	P=0.304N	P=0.547	P=0.554N	P=0.582N	P=0.093N
COCH-ARM / FISHERS	P=0.105N	P=0.309N	P=0.500	P=0.661N	P=0.661N	P=0.133N
MAX-ISO-POLY-3	P=0.141N	P=0.156N	P=0.371	P=0.426N	P=0.442N	P=0.039N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(h)	(h)

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	2/52 (4%)	1/52 (2%)	3/52 (6%)	0/52 (0%)	0/47 (0%)
POLY-3 RATE (b)	0/35.12	2/35.98	1/38.5	3/42.86	0/39.83	0/37.63
POLY-3 PERCENT (g)	0%	5.6%	2.6%	7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	2/30 (7%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	658	504	602	---	---
HC TUMORS SAME RTE	5/367 (1%)					
HC TUMORS ALL RTES	5/367 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.220N	P=0.242	P=0.518	P=0.158	(e)	(e)
POLY 1.5	P=0.237N	P=0.236	P=0.508	P=0.141	(e)	(e)
POLY 6	P=0.202N	P=0.249	P=0.532	P=0.180	(e)	(e)
COCH-ARM / FISHERS	P=0.260N	P=0.248	P=0.500	P=0.121	(e)	(e)
MAX-ISO-POLY-3	P=0.300N	P=0.080	P=0.180	P=0.072	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(e)	(e)



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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Islets, Pancreatic  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	2/52 (4%)	2/52 (4%)	3/52 (6%)	0/52 (0%)	0/47 (0%)
POLY-3 RATE (b)	0/35.12	2/35.98	2/38.5	3/42.86	0/39.83	0/37.63
POLY-3 PERCENT (g)	0%	5.6%	5.2%	7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	1/25 (4%)	2/30 (7%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	658	504	602	---	---
HC TUMORS SAME RTE	8/367 (2%)					
HC TUMORS ALL RTES	8/367 (2%)					

**STATISTICAL TESTS**

POLY 3	P=0.177N	P=0.242	P=0.257	P=0.158	(e)	(e)
POLY 1.5	P=0.194N	P=0.236	P=0.246	P=0.141	(e)	(e)
POLY 6	P=0.160N	P=0.249	P=0.274	P=0.180	(e)	(e)
COCH-ARM / FISHERS	P=0.215N	P=0.248	P=0.248	P=0.121	(e)	(e)
MAX-ISO-POLY-3	P=0.264N	P=0.080	P=0.095	P=0.072	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(e)	(e)

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Liver  
 Cholangiocarcinoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	0/51 (0%)	0/52 (0%)	0/52 (0%)	3/52 (6%)	36/49 (73%)
POLY-3 RATE (b)	0/35.12	0/35.7	0/37.83	0/42.41	3/40.22	36/42.58
POLY-3 PERCENT (g)	0%	0%	0%	0%	7.5%	84.6%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	1/28 (4%)	22/25 (88%)
FIRST INCIDENCE	---	---	---	---	642	433
HC TUMORS SAME RTE	0/371 (0%)					
HC TUMORS ALL RTEs	0/371 (0%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	(e)	(e)	(e)	P=0.144	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.133	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.159	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.121	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.060	P<0.001**
HISTCONT SAME RTE	P<0.001**	(e)	(e)	(e)	P=0.013*	P<0.001**
HISTCONT ALL RTEs	P<0.001**	(e)	(e)	(e)	P=0.013*	P<0.001**

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Liver</b>						
<b>Hepatocellular Adenoma</b>						
<b>TUMOR RATES</b>						
OVERALL (a)	0/52 (0%)	1/51 (2%)	1/52 (2%)	4/52 (8%)	12/52 (23%)	24/49 (49%)
POLY-3 RATE (b)	0/35.12	1/36.15	1/37.83	4/43.16	12/40.66	24/40.49
POLY-3 PERCENT (g)	0%	2.8%	2.6%	9.3%	29.5%	59.3%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	8/28 (29%)	17/25 (68%)
FIRST INCIDENCE	---	602	733 (T)	593	602	617
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTEs	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	P=0.506	P=0.515	P=0.091	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.506	P=0.077	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.514	P=0.527	P=0.110	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.495	P=0.500	P=0.059	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.166	P=0.176	P=0.046*	P<0.001**	P<0.001**
HISTCONT SAME RTE	P<0.001**	P=0.207	P=0.219	P=0.032*	P<0.001**	P<0.001**
HISTCONT ALL RTEs	P<0.001**	P=0.207	P=0.219	P=0.032*	P<0.001**	P<0.001**

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DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Liver</b>						
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>						
<b>TUMOR RATES</b>						
OVERALL (a)	0/52 (0%)	1/51 (2%)	1/52 (2%)	4/52 (8%)	12/52 (23%)	24/49 (49%)
POLY-3 RATE (b)	0/35.12	1/36.15	1/37.83	4/43.16	12/40.66	24/40.49
POLY-3 PERCENT (g)	0%	2.8%	2.6%	9.3%	29.5%	59.3%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	8/28 (29%)	17/25 (68%)
FIRST INCIDENCE	---	602	733 (T)	593	602	617
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTEs	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	P=0.506	P=0.515	P=0.091	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.506	P=0.077	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.514	P=0.527	P=0.110	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.495	P=0.500	P=0.059	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.166	P=0.176	P=0.046*	P<0.001**	P<0.001**
HISTCONT SAME RTE	P<0.001**	P=0.207	P=0.219	P=0.032*	P<0.001**	P<0.001**
HISTCONT ALL RTEs	P<0.001**	P=0.207	P=0.219	P=0.032*	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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Liver</b>						
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>						
<b>TUMOR RATES</b>						
OVERALL (a)	0/52 (0%)	1/51 (2%)	1/52 (2%)	4/52 (8%)	12/52 (23%)	24/49 (49%)
POLY-3 RATE (b)	0/35.12	1/36.15	1/37.83	4/43.16	12/40.66	24/40.49
POLY-3 PERCENT (g)	0%	2.8%	2.6%	9.3%	29.5%	59.3%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	2/30 (7%)	8/28 (29%)	17/25 (68%)
FIRST INCIDENCE	---	602	733 (T)	593	602	617
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTEs	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	P=0.506	P=0.515	P=0.091	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.506	P=0.077	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.514	P=0.527	P=0.110	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.495	P=0.500	P=0.059	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.166	P=0.176	P=0.046*	P<0.001**	P<0.001**
HISTCONT SAME RTE	P<0.001**	P=0.207	P=0.219	P=0.032*	P<0.001**	P<0.001**
HISTCONT ALL RTEs	P<0.001**	P=0.207	P=0.219	P=0.032*	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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

Liver  
 Hepatocholangioma

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	0/51 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	4/49 (8%)
POLY-3 RATE (b)	0/35.12	0/35.7	0/37.83	0/42.41	0/39.83	4/39.43
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10.1%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	3/25 (12%)
FIRST INCIDENCE	---	---	---	---	---	687
HC TUMORS SAME RTE	0/371 (0%)					
HC TUMORS ALL RTES	0/371 (0%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.076
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.064
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.091
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.052
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.034*
HISTCONT SAME RTE	P<0.001**	(e)	(e)	(e)	(e)	P=0.011*
HISTCONT ALL RTES	P<0.001**	(e)	(e)	(e)	(e)	P=0.011*

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Lung  
 Cystic Keratinizing Epithelioma**

**TUMOR RATES**

OVERALL (a)	0/51 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	20/50 (40%)
POLY-3 RATE (b)	0/35.05	0/35.7	0/37.83	0/42.41	0/39.83	20/40.61
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	49.2%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	12/25 (48%)
FIRST INCIDENCE	---	---	---	---	---	617
HC TUMORS SAME RTE	0/370 (0%)					
HC TUMORS ALL RTES	0/370 (0%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
HISTCONT SAME RTE	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
HISTCONT ALL RTES	P<0.001**	(e)	(e)	(e)	(e)	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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Mammary Gland Adenoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	1/52 (2%)	2/52 (4%)	1/52 (2%)	0/52 (0%)
POLY-3 RATE (b)	0/35.12	0/35.7	1/38.12	2/42.41	1/40.28	0/39.93
POLY-3 PERCENT (g)	0%	0%	2.6%	4.7%	2.5%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	2/30 (7%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	652	733 (T)	602	---
HC TUMORS SAME RTE	11/371 (3%)					
HC TUMORS ALL RTES	11/371 (3%)					

**STATISTICAL TESTS**

POLY 3	P=0.417N	(e)	P=0.516	P=0.281	P=0.527	(e)
POLY 1.5	P=0.440N	(e)	P=0.507	P=0.263	P=0.516	(e)
POLY 6	P=0.393N	(e)	P=0.530	P=0.304	P=0.542	(e)
COCH-ARM / FISHERS	P=0.461N	(e)	P=0.500	P=0.248	P=0.500	(e)
MAX-ISO-POLY-3	P=0.412	(e)	P=0.177	P=0.117	P=0.190	(e)
HISTCONT SAME RTE	(h)	(e)	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(e)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Mammary Gland Carcinoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	2/52 (4%)	6/52 (12%)	7/52 (13%)	4/52 (8%)	1/52 (2%)	2/52 (4%)
POLY-3 RATE (b)	2/35.79	6/36.76	7/39.89	4/42.41	1/39.83	2/40.64
POLY-3 PERCENT (g)	5.6%	16.3%	17.6%	9.4%	2.5%	4.9%
TERMINAL (d)	1/21 (5%)	3/20 (15%)	3/25 (12%)	4/30 (13%)	1/28 (4%)	1/25 (4%)
FIRST INCIDENCE	503	571	393	733 (T)	733 (T)	484
HC TUMORS SAME RTE	42/371 (11%)					
HC TUMORS ALL RTEs	42/371 (11%)					

**STATISTICAL TESTS**

POLY 3	P=0.125N	P=0.137	P=0.104	P=0.418	P=0.463N	P=0.648N
POLY 1.5	P=0.143N	P=0.130	P=0.090	P=0.386	P=0.478N	P=0.676N
POLY 6	P=0.109N	P=0.148	P=0.126	P=0.456	P=0.444N	P=0.617N
COCH-ARM / FISHERS	P=0.155N	P=0.135	P=0.080	P=0.339	P=0.500N	P=0.691N
MAX-ISO-POLY-3	P=0.163N	P=0.073	P=0.062	P=0.280	P=0.259N	P=0.451N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Mammary Gland  
 Carcinoma or Adenoma**

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	2/52 (4%)	6/52 (12%)	7/52 (13%)	5/52 (10%)	2/52 (4%)	2/52 (4%)
POLY-3 RATE (b)	2/35.79	6/36.76	7/39.89	5/42.41	2/40.28	2/40.64
POLY-3 PERCENT (g)	5.6%	16.3%	17.6%	11.8%	5%	4.9%
TERMINAL (d)	1/21 (5%)	3/20 (15%)	3/25 (12%)	5/30 (17%)	1/28 (4%)	1/25 (4%)
FIRST INCIDENCE	503	571	393	733 (T)	602	484
HC TUMORS SAME RTE	50/371 (14%)					
HC TUMORS ALL RTES	50/371 (14%)					

**STATISTICAL TESTS**

POLY 3	P=0.112N	P=0.137	P=0.104	P=0.289	P=0.652N	P=0.648N
POLY 1.5	P=0.131N	P=0.130	P=0.090	P=0.260	P=0.670N	P=0.676N
POLY 6	P=0.096N	P=0.148	P=0.126	P=0.326	P=0.628N	P=0.617N
COCH-ARM / FISHERS	P=0.144N	P=0.135	P=0.080	P=0.218	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.206N	P=0.073	P=0.062	P=0.188	P=0.454N	P=0.451N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Mammary Gland Fibroadenoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	25/52 (48%)	29/52 (56%)	27/52 (52%)	33/52 (63%)	20/52 (38%)	8/52 (15%)
POLY-3 RATE (b)	25/43.94	29/41.44	27/42.69	33/47.95	20/41.24	8/41.18
POLY-3 PERCENT (g)	56.9%	70%	63.3%	68.8%	48.5%	19.4%
TERMINAL (d)	8/21 (38%)	14/20 (70%)	15/25 (60%)	20/30 (67%)	16/28 (57%)	5/25 (20%)
FIRST INCIDENCE	320	386	412	238	593	433
HC TUMORS SAME RTE	263/371 (71%)					
HC TUMORS ALL RTEs	263/371 (71%)					

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P=0.140	P=0.346	P=0.158	P=0.281N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.163	P=0.349	P=0.131	P=0.248N	P<0.001N**
POLY 6	P<0.001N**	P=0.122	P=0.365	P=0.186	P=0.330N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.278	P=0.422	P=0.083	P=0.214N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.100	P=0.269	P=0.119	P=0.217N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Mammary Gland Fibroma, Fibroadenoma or Adenoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	25/52 (48%)	29/52 (56%)	27/52 (52%)	34/52 (65%)	21/52 (40%)	8/52 (15%)
POLY-3 RATE (b)	25/43.94	29/41.44	27/42.69	34/47.95	21/41.69	8/41.18
POLY-3 PERCENT (g)	56.9%	70%	63.3%	70.9%	50.4%	19.4%
TERMINAL (d)	8/21 (38%)	14/20 (70%)	15/25 (60%)	21/30 (70%)	16/28 (57%)	5/25 (20%)
FIRST INCIDENCE	320	386	412	238	593	433
HC TUMORS SAME RTE	267/371 (72%)					
HC TUMORS ALL RTES	267/371 (72%)					

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P=0.140	P=0.346	P=0.109	P=0.344N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.163	P=0.349	P=0.090	P=0.313N	P<0.001N**
POLY 6	P<0.001N**	P=0.122	P=0.365	P=0.130	P=0.385N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.278	P=0.422	P=0.056	P=0.277N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.100	P=0.269	P=0.081	P=0.271N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
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 CAS Number: 31508-00-6

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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	27/52 (52%)	32/52 (62%)	30/52 (58%)	35/52 (67%)	21/52 (40%)	10/52 (19%)
POLY-3 RATE (b)	27/44.61	32/41.97	30/44.27	35/47.95	21/41.69	10/41.89
POLY-3 PERCENT (g)	60.5%	76.3%	67.8%	73%	50.4%	23.9%
TERMINAL (d)	9/21 (43%)	16/20 (80%)	16/25 (64%)	22/30 (73%)	16/28 (57%)	6/25 (24%)
FIRST INCIDENCE	320	386	393	238	593	433
HC TUMORS SAME RTE	279/371 (75%)					
HC TUMORS ALL RTES	279/371 (75%)					

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P=0.077	P=0.306	P=0.136	P=0.224N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.098	P=0.296	P=0.118	P=0.194N	P<0.001N**
POLY 6	P<0.001N**	P=0.063	P=0.333	P=0.151	P=0.266N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.214	P=0.347	P=0.081	P=0.163N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.053	P=0.230	P=0.099	P=0.171N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
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 CAS Number: 31508-00-6

Date Report Requested: 07/17/2008  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)
POLY-3 RATE (b)	0/35.12	0/35.7	1/37.91	0/42.41	0/39.83	2/40.71
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	0%	4.9%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	713	---	---	620
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTES	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.062	(e)	P=0.515	(e)	(e)	P=0.271
POLY 1.5	P=0.057	(e)	P=0.506	(e)	(e)	P=0.251
POLY 6	P=0.067	(e)	P=0.528	(e)	(e)	P=0.296
COCH-ARM / FISHERS	P=0.056	(e)	P=0.500	(e)	(e)	P=0.248
MAX-ISO-POLY-3	P=0.074	(e)	P=0.176	(e)	(e)	P=0.107
HISTCONT SAME RTE	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083
HISTCONT ALL RTES	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)
POLY-3 RATE (b)	0/35.12	0/35.7	1/37.91	0/42.41	0/39.83	2/40.71
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	0%	4.9%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	713	---	---	620
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTES	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.062	(e)	P=0.515	(e)	(e)	P=0.271
POLY 1.5	P=0.057	(e)	P=0.506	(e)	(e)	P=0.251
POLY 6	P=0.067	(e)	P=0.528	(e)	(e)	P=0.296
COCH-ARM / FISHERS	P=0.056	(e)	P=0.500	(e)	(e)	P=0.248
MAX-ISO-POLY-3	P=0.074	(e)	P=0.176	(e)	(e)	P=0.107
HISTCONT SAME RTE	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083
HISTCONT ALL RTES	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Oral Mucosa  
 Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	2/52 (4%)
POLY-3 RATE (b)	0/35.12	0/35.7	1/37.91	0/42.41	0/39.83	2/40.71
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	0%	4.9%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	713	---	---	620
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTES	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.062	(e)	P=0.515	(e)	(e)	P=0.271
POLY 1.5	P=0.057	(e)	P=0.506	(e)	(e)	P=0.251
POLY 6	P=0.067	(e)	P=0.528	(e)	(e)	P=0.296
COCH-ARM / FISHERS	P=0.056	(e)	P=0.500	(e)	(e)	P=0.248
MAX-ISO-POLY-3	P=0.074	(e)	P=0.176	(e)	(e)	P=0.107
HISTCONT SAME RTE	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083
HISTCONT ALL RTES	P=0.083	(e)	P=0.220	(e)	(e)	P=0.083



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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Ovary  
 Granulosa-Theca Tumor Malignant**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/35.12	0/35.7	2/37.98	0/42.41	0/39.83	0/38.3
POLY-3 PERCENT (g)	0%	0%	5.3%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	1/25 (4%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	694	---	---	---
HC TUMORS SAME RTE	0/367 (0%)					
HC TUMORS ALL RTES	0/367 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.521N	(e)	P=0.254	(e)	(e)	(e)
POLY 1.5	P=0.530N	(e)	P=0.244	(e)	(e)	(e)
POLY 6	P=0.510N	(e)	P=0.269	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.537N	(e)	P=0.248	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.395N	(e)	P=0.092	(e)	(e)	(e)
HISTCONT SAME RTE	(h)	(e)	(h)	(e)	(e)	(e)
HISTCONT ALL RTES	(h)	(e)	(h)	(e)	(e)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	3/52 (6%)	1/47 (2%)
POLY-3 RATE (b)	0/35.12	0/35.7	0/37.83	2/42.69	3/39.83	1/37.63
POLY-3 PERCENT (g)	0%	0%	0%	4.7%	7.5%	2.7%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	3/28 (11%)	1/25 (4%)
FIRST INCIDENCE	---	---	---	658	733 (T)	733 (T)
HC TUMORS SAME RTE	1/366 (0%)					
HC TUMORS ALL RTES	1/366 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.508	(e)	(e)	P=0.283	P=0.142	P=0.514
POLY 1.5	P=0.473	(e)	(e)	P=0.264	P=0.132	P=0.497
POLY 6	P=0.545	(e)	(e)	P=0.307	P=0.155	P=0.532
COCH-ARM / FISHERS	P=0.428	(e)	(e)	P=0.248	P=0.121	P=0.475
MAX-ISO-POLY-3	P=0.181	(e)	(e)	P=0.118	P=0.059	P=0.180
HISTCONT SAME RTE	P=0.151	(e)	(e)	P=0.031*	P=0.022*	P=0.105
HISTCONT ALL RTES	P=0.151	(e)	(e)	P=0.031*	P=0.022*	P=0.105

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Pancreas  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	3/52 (6%)	2/47 (4%)
POLY-3 RATE (b)	0/35.12	0/35.7	0/37.83	2/42.69	3/39.83	2/37.63
POLY-3 PERCENT (g)	0%	0%	0%	4.7%	7.5%	5.3%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	3/28 (11%)	2/25 (8%)
FIRST INCIDENCE	---	---	---	658	733 (T)	733 (T)
HC TUMORS SAME RTE	1/366 (0%)					
HC TUMORS ALL RTES	1/366 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.196	(e)	(e)	P=0.283	P=0.142	P=0.252
POLY 1.5	P=0.173	(e)	(e)	P=0.264	P=0.132	P=0.233
POLY 6	P=0.221	(e)	(e)	P=0.307	P=0.155	P=0.275
COCH-ARM / FISHERS	P=0.148	(e)	(e)	P=0.248	P=0.121	P=0.223
MAX-ISO-POLY-3	P=0.122	(e)	(e)	P=0.118	P=0.059	P=0.095
HISTCONT SAME RTE	P=0.092	(e)	(e)	P=0.031*	P=0.022*	P=0.030*
HISTCONT ALL RTES	P=0.092	(e)	(e)	P=0.031*	P=0.022*	P=0.030*

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

**TUMOR RATES**

OVERALL (a)	17/52 (33%)	24/52 (46%)	18/52 (35%)	24/52 (46%)	17/52 (33%)	4/52 (8%)
POLY-3 RATE (b)	17/37.11	24/37.71	18/38.85	24/44.62	17/42.76	4/39.93
POLY-3 PERCENT (g)	45.8%	63.7%	46.3%	53.8%	39.8%	10%
TERMINAL (d)	11/21 (52%)	14/20 (70%)	15/25 (60%)	16/30 (53%)	10/28 (36%)	4/25 (16%)
FIRST INCIDENCE	440	608	617	582	407	733 (T)
HC TUMORS SAME RTE	153/369 (42%)					
HC TUMORS ALL RTES	153/369 (42%)					

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P=0.077	P=0.576	P=0.305	P=0.372N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.076	P=0.524	P=0.209	P=0.462N	P<0.001N**
POLY 6	P<0.001N**	P=0.090	P=0.550N	P=0.448	P=0.273N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.114	P=0.500	P=0.114	P=0.583N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.049*	P=0.481	P=0.247	P=0.300N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

**TUMOR RATES**

OVERALL (a)	2/52 (4%)	1/52 (2%)	0/52 (0%)	0/52 (0%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	2/35.78	1/35.92	0/37.83	0/42.41	0/39.83	0/39.93
POLY-3 PERCENT (g)	5.6%	2.8%	0%	0%	0%	0%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	512	674	---	---	---	---
HC TUMORS SAME RTE	1/369 (0%)					
HC TUMORS ALL RTEs	1/369 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.335N	P=0.499N	P=0.224N	P=0.201N	P=0.213N	P=0.213N
POLY 1.5	P=0.330N	P=0.505N	P=0.232N	P=0.215N	P=0.223N	P=0.228N
POLY 6	P=0.343N	P=0.490N	P=0.213N	P=0.186N	P=0.202N	P=0.198N
COCH-ARM / FISHERS	P=0.322N	P=0.500N	P=0.248N	P=0.248N	P=0.248N	P=0.248N
MAX-ISO-POLY-3	P=0.039N*	P=0.278N	P=0.075N	P=0.075N	P=0.075N	P=0.075N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

**TUMOR RATES**

OVERALL (a)	19/52 (37%)	25/52 (48%)	18/52 (35%)	24/52 (46%)	17/52 (33%)	4/52 (8%)
POLY-3 RATE (b)	19/37.77	25/37.93	18/38.85	24/44.62	17/42.76	4/39.93
POLY-3 PERCENT (g)	50.3%	65.9%	46.3%	53.8%	39.8%	10%
TERMINAL (d)	12/21 (57%)	14/20 (70%)	15/25 (60%)	16/30 (53%)	10/28 (36%)	4/25 (16%)
FIRST INCIDENCE	440	608	617	582	407	733 (T)
HC TUMORS SAME RTE	154/369 (42%)					
HC TUMORS ALL RTES	154/369 (42%)					

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P=0.108	P=0.450N	P=0.462	P=0.227N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.108	P=0.492N	P=0.347	P=0.303N	P<0.001N**
POLY 6	P<0.001N**	P=0.125	P=0.391N	P=0.580N	P=0.154N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.161	P=0.500N	P=0.213	P=0.418N	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.068	P=0.359N	P=0.381	P=0.177N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Skin</b>						
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	1/52 (2%)	1/52 (2%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	1/35.67	1/35.7	0/37.83	2/42.63	0/39.83	0/39.93
POLY-3 PERCENT (g)	2.8%	2.8%	0%	4.7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	561	733 (T)	---	677	---	---
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTES	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.308N	P=0.762N	P=0.488N	P=0.562	P=0.478N	P=0.477N
POLY 1.5	P=0.318N	P=0.758	P=0.496N	P=0.538	P=0.487N	P=0.492N
POLY 6	P=0.298N	P=0.758N	P=0.478N	P=0.589	P=0.467N	P=0.463N
COCH-ARM / FISHERS	P=0.328N	P=0.752N	P=0.500N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.354N	P=0.499N	P=0.157N	P=0.346	P=0.157N	P=0.157N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Skin Fibroma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	2/52 (4%)	0/52 (0%)	1/52 (2%)	0/52 (0%)	1/52 (2%)	0/52 (0%)
POLY-3 RATE (b)	2/35.97	0/35.7	1/38.5	0/42.41	1/40.48	0/39.93
POLY-3 PERCENT (g)	5.6%	0%	2.6%	0%	2.5%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	561	---	504	---	516	---
HC TUMORS SAME RTE	6/371 (2%)					
HC TUMORS ALL RTES	6/371 (2%)					

**STATISTICAL TESTS**

POLY 3	P=0.347N	P=0.238N	P=0.476N	P=0.202N	P=0.459N	P=0.214N
POLY 1.5	P=0.351N	P=0.241N	P=0.490N	P=0.215N	P=0.475N	P=0.228N
POLY 6	P=0.345N	P=0.235N	P=0.459N	P=0.189N	P=0.440N	P=0.200N
COCH-ARM / FISHERS	P=0.350N	P=0.248N	P=0.500N	P=0.248N	P=0.500N	P=0.248N
MAX-ISO-POLY-3	P=0.072N	P=0.076N	P=0.266N	P=0.075N	P=0.257N	P=0.075N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Skin  
 Squamous Cell Papilloma**

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	0/35.12	0/35.7	0/37.83	2/42.63	0/39.83	0/39.93
POLY-3 PERCENT (g)	0%	0%	0%	4.7%	0%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	---	677	---	---
HC TUMORS SAME RTE	1/371 (0%)					
HC TUMORS ALL RTES	1/371 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.562N	(e)	(e)	P=0.283	(e)	(e)
POLY 1.5	P=0.581N	(e)	(e)	P=0.264	(e)	(e)
POLY 6	P=0.541N	(e)	(e)	P=0.306	(e)	(e)
COCH-ARM / FISHERS	P=0.603N	(e)	(e)	P=0.248	(e)	(e)
MAX-ISO-POLY-3	P=0.441	(e)	(e)	P=0.118	(e)	(e)
HISTCONT SAME RTE	(h)	(e)	(e)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(e)	(e)	(h)	(e)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	1/52 (2%)	1/52 (2%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	1/35.67	1/35.7	0/37.83	2/42.63	0/39.83	0/39.93
POLY-3 PERCENT (g)	2.8%	2.8%	0%	4.7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	561	733 (T)	---	677	---	---
HC TUMORS SAME RTE	2/371 (1%)					
HC TUMORS ALL RTES	2/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.308N	P=0.762N	P=0.488N	P=0.562	P=0.478N	P=0.477N
POLY 1.5	P=0.318N	P=0.758	P=0.496N	P=0.538	P=0.487N	P=0.492N
POLY 6	P=0.298N	P=0.758N	P=0.478N	P=0.589	P=0.467N	P=0.463N
COCH-ARM / FISHERS	P=0.328N	P=0.752N	P=0.500N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.354N	P=0.499N	P=0.157N	P=0.346	P=0.157N	P=0.157N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	1/52 (2%)	1/52 (2%)	0/52 (0%)	2/52 (4%)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	1/35.67	1/35.7	0/37.83	2/42.63	0/39.83	0/39.93
POLY-3 PERCENT (g)	2.8%	2.8%	0%	4.7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/20 (5%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	561	733 (T)	---	677	---	---
HC TUMORS SAME RTE	2/371 (1%)					
HC TUMORS ALL RTES	2/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.308N	P=0.762N	P=0.488N	P=0.562	P=0.478N	P=0.477N
POLY 1.5	P=0.318N	P=0.758	P=0.496N	P=0.538	P=0.487N	P=0.492N
POLY 6	P=0.298N	P=0.758N	P=0.478N	P=0.589	P=0.467N	P=0.463N
COCH-ARM / FISHERS	P=0.328N	P=0.752N	P=0.500N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.354N	P=0.499N	P=0.157N	P=0.346	P=0.157N	P=0.157N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thyroid Gland: C-Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	9/51 (18%)	5/51 (10%)	5/51 (10%)	13/51 (25%)	5/52 (10%)	6/49 (12%)
POLY-3 RATE (b)	9/37.33	5/35.94	5/38.2	13/43	5/40.54	6/39.64
POLY-3 PERCENT (g)	24.1%	13.9%	13.1%	30.2%	12.3%	15.1%
TERMINAL (d)	5/21 (24%)	2/20 (10%)	3/25 (12%)	8/30 (27%)	4/28 (14%)	4/25 (16%)
FIRST INCIDENCE	503	658	658	593	487	620
HC TUMORS SAME RTE	100/367 (27%)					
HC TUMORS ALL RTEs	100/367 (27%)					

**STATISTICAL TESTS**

POLY 3	P=0.294N	P=0.206N	P=0.172N	P=0.358	P=0.143N	P=0.239N
POLY 1.5	P=0.333N	P=0.212N	P=0.185N	P=0.304	P=0.159N	P=0.279N
POLY 6	P=0.260N	P=0.194N	P=0.153N	P=0.433	P=0.125N	P=0.199N
COCH-ARM / FISHERS	P=0.389N	P=0.194N	P=0.194N	P=0.235	P=0.184N	P=0.318N
MAX-ISO-POLY-3	P=0.232N	P=0.134N	P=0.108N	P=0.282	P=0.093N	P=0.168N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**Thyroid Gland: C-Cell  
 Carcinoma**

**TUMOR RATES**

OVERALL (a)	2/51 (4%)	1/51 (2%)	0/51 (0%)	1/51 (2%)	0/52 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/35.05	1/35.6	0/37.82	1/41.85	0/39.83	0/39.07
POLY-3 PERCENT (g)	5.7%	2.8%	0%	2.4%	0%	0%
TERMINAL (d)	2/21 (10%)	0/20 (0%)	0/25 (0%)	1/30 (3%)	0/28 (0%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	620	---	733 (T)	---	---
HC TUMORS SAME RTE	15/367 (4%)					
HC TUMORS ALL RTES	15/367 (4%)					

**STATISTICAL TESTS**

POLY 3	P=0.280N	P=0.495N	P=0.220N	P=0.439N	P=0.209N	P=0.213N
POLY 1.5	P=0.281N	P=0.504N	P=0.229N	P=0.464N	P=0.220N	P=0.229N
POLY 6	P=0.282N	P=0.480N	P=0.207N	P=0.407N	P=0.196N	P=0.196N
COCH-ARM / FISHERS	P=0.285N	P=0.500N	P=0.248N	P=0.500N	P=0.243N	P=0.258N
MAX-ISO-POLY-3	P=0.073N	P=0.275N	P=0.075N	P=0.247N	P=0.074N	P=0.077N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

**TUMOR RATES**

OVERALL (a)	11/51 (22%)	6/51 (12%)	5/51 (10%)	14/51 (27%)	5/52 (10%)	6/49 (12%)
POLY-3 RATE (b)	11/37.33	6/36.33	5/38.2	14/43	5/40.54	6/39.64
POLY-3 PERCENT (g)	29.5%	16.5%	13.1%	32.6%	12.3%	15.1%
TERMINAL (d)	7/21 (33%)	2/20 (10%)	3/25 (12%)	9/30 (30%)	4/28 (14%)	4/25 (16%)
FIRST INCIDENCE	503	620	658	593	487	620
HC TUMORS SAME RTE	113/367 (31%)					
HC TUMORS ALL RTES	113/367 (31%)					

**STATISTICAL TESTS**

POLY 3	P=0.183N	P=0.144N	P=0.068N	P=0.477	P=0.052N	P=0.104N
POLY 1.5	P=0.214N	P=0.155N	P=0.077N	P=0.411	P=0.062N	P=0.133N
POLY 6	P=0.158N	P=0.127N	P=0.056N	P=0.565	P=0.042N*	P=0.078N
COCH-ARM / FISHERS	P=0.264N	P=0.144N	P=0.086N	P=0.323	P=0.080N	P=0.165N
MAX-ISO-POLY-3	P=0.082N	P=0.093N	P=0.039N*	P=0.389	P=0.032N*	P=0.069N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Uterus Carcinoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	2/52 (4%)	2/52 (4%)	1/52 (2%)	3/52 (6%)	4/52 (8%)	3/52 (6%)
POLY-3 RATE (b)	2/35.12	2/36.15	1/38.29	3/42.43	4/40.29	3/40.16
POLY-3 PERCENT (g)	5.7%	5.5%	2.6%	7.1%	9.9%	7.5%
TERMINAL (d)	2/21 (10%)	1/20 (5%)	0/25 (0%)	2/30 (7%)	2/28 (7%)	2/25 (8%)
FIRST INCIDENCE	733 (T)	602	595	730	669	672
HC TUMORS SAME RTE	3/371 (1%)					
HC TUMORS ALL RTES	3/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.427	P=0.685N	P=0.470N	P=0.585	P=0.402	P=0.561
POLY 1.5	P=0.398	P=0.695	P=0.487N	P=0.552	P=0.373	P=0.524
POLY 6	P=0.455	P=0.672N	P=0.445N	P=0.624	P=0.439	P=0.602
COCH-ARM / FISHERS	P=0.381	P=0.691N	P=0.500N	P=0.500	P=0.339	P=0.500
MAX-ISO-POLY-3	P=0.464	P=0.488N	P=0.262N	P=0.412	P=0.264	P=0.387
HISTCONT SAME RTE	P=0.092	P=0.114	P=0.376	P=0.044*	P=0.026*	P=0.045*
HISTCONT ALL RTES	P=0.092	P=0.114	P=0.376	P=0.044*	P=0.026*	P=0.045*

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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Uterus</b>						
<b>Polyp Stromal</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	3/52 (6%)	6/52 (12%)	6/52 (12%)	10/52 (19%)	8/52 (15%)	6/52 (12%)
POLY-3 RATE (b)	3/35.9	6/36.17	6/38.41	10/43.37	8/40.63	6/40.56
POLY-3 PERCENT (g)	8.4%	16.6%	15.6%	23.1%	19.7%	14.8%
TERMINAL (d)	1/21 (5%)	4/20 (20%)	4/25 (16%)	6/30 (20%)	4/28 (14%)	4/25 (16%)
FIRST INCIDENCE	617	602	617	602	642	617
HC TUMORS SAME RTE	54/371 (15%)					
HC TUMORS ALL RTES	54/371 (15%)					

**STATISTICAL TESTS**

POLY 3	P=0.516N	P=0.240	P=0.273	P=0.071	P=0.138	P=0.303
POLY 1.5	P=0.570N	P=0.234	P=0.253	P=0.055	P=0.120	P=0.264
POLY 6	P=0.465N	P=0.248	P=0.301	P=0.097	P=0.163	P=0.347
COCH-ARM / FISHERS	P=0.549	P=0.244	P=0.244	P=0.036*	P=0.100	P=0.244
MAX-ISO-POLY-3	P=0.213	P=0.143	P=0.176	P=0.052	P=0.090	P=0.204
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>Uterus</b>						
<b>Squamous Cell Carcinoma</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	0/52 (0%)	0/52 (0%)	3/52 (6%)	1/52 (2%)	1/52 (2%)	0/52 (0%)
POLY-3 RATE (b)	0/35.12	0/35.7	3/37.93	1/42.79	1/39.83	0/39.93
POLY-3 PERCENT (g)	0%	0%	7.9%	2.3%	2.5%	0%
TERMINAL (d)	0/21 (0%)	0/20 (0%)	2/25 (8%)	0/30 (0%)	1/28 (4%)	0/25 (0%)
FIRST INCIDENCE	---	---	707	627	733 (T)	---
HC TUMORS SAME RTE	1/371 (0%)					
HC TUMORS ALL RTES	1/371 (0%)					

**STATISTICAL TESTS**

POLY 3	P=0.315N	(e)	P=0.132	P=0.539	P=0.525	(e)
POLY 1.5	P=0.334N	(e)	P=0.124	P=0.524	P=0.515	(e)
POLY 6	P=0.295N	(e)	P=0.144	P=0.557	P=0.538	(e)
COCH-ARM / FISHERS	P=0.348N	(e)	P=0.121	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.361	(e)	P=0.050*	P=0.204	P=0.187	(e)
HISTCONT SAME RTE	(h)	(e)	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(e)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

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

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	2/52 (4%)	1/52 (2%)	2/52 (4%)	2/52 (4%)	1/52 (2%)	3/52 (6%)
POLY-3 RATE (b)	2/36.11	1/36.04	2/39.3	2/43.24	1/40.54	3/40.29
POLY-3 PERCENT (g)	5.5%	2.8%	5.1%	4.6%	2.5%	7.5%
TERMINAL (d)	1/21 (5%)	0/20 (0%)	0/25 (0%)	0/30 (0%)	0/28 (0%)	1/25 (4%)
FIRST INCIDENCE	119	637	163	582	487	673
HC TUMORS SAME RTE	4/371 (1%)					
HC TUMORS ALL RTES	4/371 (1%)					

**STATISTICAL TESTS**

POLY 3	P=0.323	P=0.501N	P=0.664N	P=0.628N	P=0.460N	P=0.550
POLY 1.5	P=0.306	P=0.509N	P=0.682N	P=0.657N	P=0.479N	P=0.515
POLY 6	P=0.340	P=0.489N	P=0.639N	P=0.590N	P=0.436N	P=0.590
COCH-ARM / FISHERS	P=0.300	P=0.500N	P=0.691N	P=0.691N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.479	P=0.279N	P=0.466N	P=0.433N	P=0.257N	P=0.375
HISTCONT SAME RTE	P=0.109	P=0.478	P=0.214	P=0.225	P=0.501	P=0.093
HISTCONT ALL RTES	P=0.109	P=0.478	P=0.214	P=0.225	P=0.501	P=0.093

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
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Date Report Requested: 07/17/2008  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**All Organs  
 Benign Tumors**

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	43/52 (83%)	39/52 (75%)	37/52 (71%)	45/52 (87%)	41/52 (79%)	36/52 (69%)
POLY-3 RATE (b)	43/47.38	39/42.78	37/43.78	45/49.43	41/45.81	36/43.7
POLY-3 PERCENT (g)	90.8%	91.2%	84.5%	91.1%	89.5%	82.4%
TERMINAL (d)	19/21 (91%)	19/20 (95%)	22/25 (88%)	27/30 (90%)	26/28 (93%)	23/25 (92%)
FIRST INCIDENCE	320	386	412	238	407	433
HC TUMORS SAME RTE	332/371 (90%)					
HC TUMORS ALL RTEs	332/371 (90%)					

**STATISTICAL TESTS**

POLY 3	P=0.109N	P=0.639	P=0.255N	P=0.632	P=0.565N	P=0.166N
POLY 1.5	P=0.138N	P=0.548N	P=0.211N	P=0.561	P=0.492N	P=0.168N
POLY 6	P=0.121N	P=0.565	P=0.278N	P=0.626N	P=0.643N	P=0.187N
COCH-ARM / FISHERS	P=0.103N	P=0.236N	P=0.122N	P=0.393	P=0.402N	P=0.084N
MAX-ISO-POLY-3	P=0.153N	P=0.470	P=0.164N	P=0.478	P=0.408N	P=0.102N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)	(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: 07/17/2008  
 Time Report Requested: 11:19:09  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG
<b>All Organs</b>						
<b>Malignant Tumors</b>						
<b>TUMOR RATES</b>	#	#	#	#	#	#
OVERALL (a)	15/52 (29%)	18/52 (35%)	23/52 (44%)	14/52 (27%)	16/52 (31%)	39/52 (75%)
POLY-3 RATE (b)	15/38.5	18/40.15	23/44.65	14/45.31	16/43.52	39/44.9
POLY-3 PERCENT (g)	39%	44.8%	51.5%	30.9%	36.8%	86.9%
TERMINAL (d)	9/21 (43%)	8/20 (40%)	9/25 (36%)	8/30 (27%)	8/28 (29%)	22/25 (88%)
FIRST INCIDENCE	119	298	163	300	298	433
HC TUMORS SAME RTE	98/371 (26%)					
HC TUMORS ALL RTES	98/371 (26%)					

**STATISTICAL TESTS**

POLY 3	P<0.001**	P=0.379	P=0.170	P=0.291N	P=0.509N	P<0.001**
POLY 1.5	P<0.001**	P=0.332	P=0.119	P=0.373N	P=0.583N	P<0.001**
POLY 6	P<0.001**	P=0.448	P=0.262	P=0.210N	P=0.418N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.337	P=0.077	P=0.500N	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.297	P=0.134	P=0.233N	P=0.421N	P<0.001**
HISTCONT SAME RTE	P<0.001**	P=0.109	P=0.035*	P=1.000	P=0.401	P<0.001**
HISTCONT ALL RTES	P<0.001**	P=0.109	P=0.035*	P=1.000	P=0.401	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: 07/17/2008  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

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

DOSE	Females					
	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG	1000 UG/KG	4600 UG/KG

**All Organs  
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#	#	#
OVERALL (a)	48/52 (92%)	43/52 (83%)	47/52 (90%)	47/52 (90%)	45/52 (87%)	45/52 (87%)
POLY-3 RATE (b)	48/49.26	43/45.47	47/49.47	47/50.86	45/47.52	45/46.15
POLY-3 PERCENT (g)	97.4%	94.6%	95%	92.4%	94.7%	97.5%
TERMINAL (d)	21/21 (100%)	19/20 (95%)	23/25 (92%)	27/30 (90%)	27/28 (96%)	25/25 (100%)
FIRST INCIDENCE	119	298	163	238	298	433
HC TUMORS SAME RTE	351/371 (95%)					
HC TUMORS ALL RTES	351/371 (95%)					

**STATISTICAL TESTS**

POLY 3	P=0.343	P=0.403N	P=0.450N	P=0.219N	P=0.410N	P=0.809
POLY 1.5	P=0.317	P=0.331N	P=0.501N	P=0.310N	P=0.354N	P=0.680
POLY 6	P=0.358	P=0.457N	P=0.352N	P=0.154N	P=0.502N	P=0.910N
COCH-ARM / FISHERS	P=0.399N	P=0.117N	P=0.500N	P=0.500N	P=0.263N	P=0.263N
MAX-ISO-POLY-3	P=0.448	P=0.184N	P=0.228N	P=0.102N	P=0.180N	P=0.488
HISTCONT SAME RTE	P=0.527	P=1.000	P=1.000	P=1.000	P=1.000	P=0.604
HISTCONT ALL RTES	P=0.527	P=1.000	P=1.000	P=1.000	P=1.000	P=0.604

**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:** 07/17/2008  
**Time Report Requested:** 11:19:09  
**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 \*\*\*