

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
**Time Report Requested:** 11:10:08  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

**C Number:** C20304

**Lock Date:** 10/12/2006

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** 25022 ACCK 25021 TSAC 25020 NATD  
25019 MSAC

**Removal Date Range:** ALL

**Treatment Groups:** Include 001 0 UG/KG Include 008 4600 UG/KG Include 009 4600 UG/KG STOP

**Study Gender:** Female

**TDMSE Version:** 2.0.0

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

**FEMALE RATS**

**Organ**

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Brain

Clitoral Gland

Eye: Retina

Kidney

Liver

Liver: Bile Duct

Liver: Hepatocyte

Liver: Oval Cell

**Morphology**

Atrophy

Hypertrophy

Necrosis

Vacuolization Cytoplasmic

Hyperplasia

Atrophy

Hyperplasia

Hemorrhage

Inflammation

Atrophy

Calculus Micro Observation Only

Nephropathy

Pigmentation

Basophilic Focus

Cholangiofibrosis

Clear Cell Focus

Eosinophilic Focus

Fatty Change Diffuse

Fatty Change Focal

Hematopoietic Cell Proliferation

Hyperplasia

Inflammation

Mixed Cell Focus

Necrosis

Pigmentation

Toxic Hepatopathy

Cyst

Hyperplasia

Hypertrophy

Multinucleated

Hyperplasia

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**Lab:** BAT

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

Lung  
Lung: Alveolar Epithelium  
  
Mammary Gland  
Nose  
Nose: Respiratory Epithelium  
Pancreas  
Pancreas: Acinus  
Pancreas: Artery  
Spleen  
Stomach, Forestomach  
Thymus  
Thyroid Gland: Follicular Cell  
Uterus  
Uterus: Endometrium

Metaplasia  
Hyperplasia  
Metaplasia Bronchiolar  
Inflammation Granulomatous  
Inflammation  
Hyperplasia  
Inflammation Chronic  
Vacuolization Cytoplasmic  
Inflammation Chronic  
Pigmentation  
Hyperplasia  
Atrophy  
Hypertrophy  
Metaplasia  
Hyperplasia Cystic

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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

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**Adrenal Cortex  
Atrophy**

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**LESION RATES**

OVERALL (a)	1/52 (2%)	35/49 (71%)	4/49 (8%)
POLY-3 RATE (b)	1/35.12	35/41.86	4/39.81
POLY-3 PERCENT (g)	2.9%	83.6%	10.1%
TERMINAL (d)	1/21 (5%)	24/25 (96%)	3/25 (12%)
FIRST INCIDENCE	733 (T)	433	713

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**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.218
POLY 1.5	P<0.001**	P<0.001**	P=0.195
POLY 6	P<0.001**	P<0.001**	P=0.244
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.163
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.124

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Lab: BAT

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TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Adrenal Cortex  
Degeneration Cystic

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LESION RATES

OVERALL (a)	9/52 (17%)	8/49 (16%)	12/49 (24%)
POLY-3 RATE (b)	9/36.70	8/40.74	12/40.18
POLY-3 PERCENT (g)	24.5%	19.6%	29.9%
TERMINAL (d)	5/21 (24%)	2/25 (8%)	9/25 (36%)
FIRST INCIDENCE	516	567	671

STATISTICAL TESTS

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POLY 3	P=0.583	P=0.404N	P=0.393
POLY 1.5	P=0.505	P=0.476N	P=0.341
POLY 6	P=0.521N	P=0.329N	P=0.443
COCH-ARM / FISHERS	P=0.405	P=0.554N	P=0.260
MAX-ISO-POLY-3	(e)	P=0.313N	P=0.308

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Adrenal Cortex  
Hyperplasia

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LESION RATES

OVERALL (a)	14/52 (27%)	13/49 (27%)	21/49 (43%)
POLY-3 RATE (b)	14/37.81	13/41.01	21/41.73
POLY-3 PERCENT (g)	37%	31.7%	50.3%
TERMINAL (d)	8/21 (38%)	8/25 (32%)	14/25 (56%)
FIRST INCIDENCE	495	484	545

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STATISTICAL TESTS

POLY 3	P=0.409	P=0.396N	P=0.159
POLY 1.5	P=0.315	P=0.481N	P=0.117
POLY 6	P=0.509	P=0.313N	P=0.211
COCH-ARM / FISHERS	P=0.216	P=0.572N	P=0.070
MAX-ISO-POLY-3	(e)	P=0.316N	P=0.124

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

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Adrenal Cortex  
Hypertrophy

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LESION RATES

OVERALL (a)	37/52 (71%)	34/49 (69%)	38/49 (78%)
POLY-3 RATE (b)	37/42.07	34/43.84	38/44.18
POLY-3 PERCENT (g)	88%	77.6%	86%
TERMINAL (d)	21/21 (100%)	22/25 (88%)	22/25 (88%)
FIRST INCIDENCE	443	433	545

STATISTICAL TESTS

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POLY 3	P=0.241N	P=0.131N	P=0.524N
POLY 1.5	P=0.443N	P=0.294N	P=0.560
POLY 6	P=0.103N	P=0.044N*	P=0.324N
COCH-ARM / FISHERS	P=0.456	P=0.509N	P=0.307
MAX-ISO-POLY-3	(e)	P=0.081N	P=0.378N

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TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Adrenal Cortex  
Necrosis

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LESION RATES

OVERALL (a)	0/52 (0%)	0/49 (0%)	4/49 (8%)
POLY-3 RATE (b)	0/35.12	0/39.16	4/41.44
POLY-3 PERCENT (g)	0%	0%	9.7%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	567

STATISTICAL TESTS

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POLY 3	P=0.207	(e)	P=0.084
POLY 1.5	P=0.186	(e)	P=0.070
POLY 6	P=0.232	(e)	P=0.102
COCH-ARM / FISHERS	P=0.173	(e)	P=0.052
MAX-ISO-POLY-3	(e)	(e)	P=0.041*

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 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Adrenal Cortex  
 Vacuolization Cytoplasmic**

**LESION RATES**

OVERALL (a)	10/52 (19%)	18/49 (37%)	21/49 (43%)
POLY-3 RATE (b)	10/37.43	18/40.99	21/43.37
POLY-3 PERCENT (g)	26.7%	43.9%	48.4%
TERMINAL (d)	6/21 (29%)	9/25 (36%)	10/25 (40%)
FIRST INCIDENCE	378	567	545

**STATISTICAL TESTS**

POLY 3	P=0.034*	P=0.083	P=0.034*
POLY 1.5	P=0.017*	P=0.054	P=0.019*
POLY 6	P=0.070	P=0.133	P=0.066
COCH-ARM / FISHERS	P=0.009**	P=0.040*	P=0.009**
MAX-ISO-POLY-3	(e)	P=0.062	P=0.028*

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 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Adrenal Medulla  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	11/52 (21%)	1/49 (2%)	16/49 (33%)
POLY-3 RATE (b)	11/36.89	1/39.37	16/41.60
POLY-3 PERCENT (g)	29.8%	2.5%	38.5%
TERMINAL (d)	6/21 (29%)	0/25 (0%)	9/25 (36%)
FIRST INCIDENCE	561	677	567

**STATISTICAL TESTS**

POLY 3	P=0.217N	P<0.001N**	P=0.283
POLY 1.5	P=0.277N	P=0.002N**	P=0.219
POLY 6	P=0.169N	P<0.001N**	P=0.357
COCH-ARM / FISHERS	P=0.363N	P=0.003N**	P=0.140
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.224

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 Lab: BAT

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 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Bone Marrow  
Atrophy**

**LESION RATES**

OVERALL (a)	4/52 (8%)	0/52 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/36.16	0/39.93	0/39.74
POLY-3 PERCENT (g)	11.1%	0%	0%
TERMINAL (d)	2/21 (10%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	440	---	---

**STATISTICAL TESTS**

POLY 3	P=0.007N**	P=0.048N*	P=0.048N*
POLY 1.5	P=0.008N**	P=0.056N	P=0.055N
POLY 6	P=0.006N**	P=0.040N*	P=0.042N*
COCH-ARM / FISHERS	P=0.011N*	P=0.059N	P=0.064N
MAX-ISO-POLY-3 (e)		P=0.018N*	P=0.019N*

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 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Bone Marrow  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	31/52 (60%)	47/52 (90%)	43/50 (86%)
POLY-3 RATE (b)	31/49.00	47/49.78	43/49.97
POLY-3 PERCENT (g)	63.3%	94.4%	86.1%
TERMINAL (d)	6/21 (29%)	23/25 (92%)	19/25 (76%)
FIRST INCIDENCE	291	65	160

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.007**
POLY 1.5	P<0.001**	P<0.001**	P=0.005**
POLY 6	P<0.001**	P<0.001**	P=0.009**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.003**
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.004**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Brain  
 Hemorrhage**

**LESION RATES**

OVERALL (a)	3/52 (6%)	0/52 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/37.05	0/39.93	1/40.72
POLY-3 PERCENT (g)	8.1%	0%	2.5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	119	---	207

**STATISTICAL TESTS**

POLY 3	P=0.091N	P=0.105N	P=0.271N
POLY 1.5	P=0.101N	P=0.116N	P=0.291N
POLY 6	P=0.082N	P=0.095N	P=0.253N
COCH-ARM / FISHERS	P=0.109N	P=0.121N	P=0.324N
MAX-ISO-POLY-3	(e)	P=0.037N*	P=0.144N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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

**Brain  
 Necrosis**

**LESION RATES**

OVERALL (a)	2/52 (4%)	0/52 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/35.79	0/39.93	0/39.74
POLY-3 PERCENT (g)	5.6%	0%	0%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	503	---	---

**STATISTICAL TESTS**

POLY 3	P=0.091N	P=0.213N	P=0.214N
POLY 1.5	P=0.098N	P=0.228N	P=0.227N
POLY 6	P=0.084N	P=0.198N	P=0.201N
COCH-ARM / FISHERS	P=0.107N	P=0.248N	P=0.257N
MAX-ISO-POLY-3	(e)	P=0.075N	P=0.077N

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---

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

---

**Clitoral Gland  
 Inflammation**

**LESION RATES**

OVERALL (a)	41/52 (79%)	13/49 (27%)	29/48 (60%)
POLY-3 RATE (b)	41/48.75	13/41.75	29/42.53
POLY-3 PERCENT (g)	84.1%	31.1%	68.2%
TERMINAL (d)	16/21 (76%)	7/25 (28%)	19/25 (76%)
FIRST INCIDENCE	291	158	433

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P<0.001N**	P=0.050N*
POLY 1.5	P<0.001N**	P<0.001N**	P=0.039N*
POLY 6	P<0.001N**	P<0.001N**	P=0.072N
COCH-ARM / FISHERS	P<0.001N**	P<0.001N**	P=0.036N*
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.034N*

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---

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

---

Clitoral Gland: Duct  
Cyst

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LESION RATES

OVERALL (a)	26/52 (50%)	30/49 (61%)	28/48 (58%)
POLY-3 RATE (b)	26/40.62	30/44.26	28/45.96
POLY-3 PERCENT (g)	64%	67.8%	60.9%
TERMINAL (d)	14/21 (67%)	15/25 (60%)	13/25 (52%)
FIRST INCIDENCE	440	158	207

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STATISTICAL TESTS

POLY 3	P=0.570	P=0.443	P=0.470N
POLY 1.5	P=0.393	P=0.305	P=0.543
POLY 6	P=0.417N	P=0.590	P=0.312N
COCH-ARM / FISHERS	P=0.165	P=0.175	P=0.263
MAX-ISO-POLY-3	(e)	P=0.357	P=0.387N

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 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

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Eye: Retina  
 Atrophy

**LESION RATES**

OVERALL (a)	1/52 (2%)	6/52 (12%)	0/50 (0%)
POLY-3 RATE (b)	1/35.12	6/40.54	0/39.74
POLY-3 PERCENT (g)	2.9%	14.8%	0%
TERMINAL (d)	1/21 (5%)	3/25 (12%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	672	---

**STATISTICAL TESTS**

POLY 3	P=0.302	P=0.081	P=0.475N
POLY 1.5	P=0.274	P=0.065	P=0.489N
POLY 6	P=0.334	P=0.103	P=0.461N
COCH-ARM / FISHERS	P=0.240	P=0.056	P=0.510N
MAX-ISO-POLY-3	(e)	P=0.046*	P=0.160N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Harderian Gland  
Infiltration Cellular Mononuclear Cell**

---

**LESION RATES**

OVERALL (a)	7/52 (13%)	13/52 (25%)	11/50 (22%)
POLY-3 RATE (b)	7/37.27	13/40.55	11/41.26
POLY-3 PERCENT (g)	18.8%	32.1%	26.7%
TERMINAL (d)	3/21 (14%)	9/25 (36%)	6/25 (24%)
FIRST INCIDENCE	503	652	545

---

**STATISTICAL TESTS**

POLY 3	P=0.164	P=0.137	P=0.287
POLY 1.5	P=0.129	P=0.110	P=0.244
POLY 6	P=0.208	P=0.170	P=0.335
COCH-ARM / FISHERS	P=0.104	P=0.106	P=0.192
MAX-ISO-POLY-3	(e)	P=0.096	P=0.216

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Heart  
 Cardiomyopathy**

**LESION RATES**

OVERALL (a)	13/52 (25%)	16/50 (32%)	19/50 (38%)
POLY-3 RATE (b)	13/37.67	16/42.37	19/41.63
POLY-3 PERCENT (g)	34.5%	37.8%	45.6%
TERMINAL (d)	7/21 (33%)	7/25 (28%)	11/25 (44%)
FIRST INCIDENCE	440	459	589

**STATISTICAL TESTS**

POLY 3	P=0.296	P=0.472	P=0.212
POLY 1.5	P=0.209	P=0.367	P=0.163
POLY 6	P=0.405	P=0.590	P=0.278
COCH-ARM / FISHERS	P=0.141	P=0.286	P=0.115
MAX-ISO-POLY-3	(e)	P=0.386	P=0.164

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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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 NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Heart: Endocardium  
Hyperplasia

---

LESION RATES

OVERALL (a)	0/52 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/35.12	2/39.26	0/39.74
POLY-3 PERCENT (g)	0%	5.1%	0%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	0/25 (0%)
FIRST INCIDENCE	---	733 (T)	---

---

STATISTICAL TESTS

POLY 3	P=0.433	P=0.262	(e)
POLY 1.5	P=0.416	P=0.244	(e)
POLY 6	P=0.451	P=0.284	(e)
COCH-ARM / FISHERS	P=0.391	P=0.238	(e)
MAX-ISO-POLY-3	(e)	P=0.102	(e)

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Intestine Large, Cecum: Artery  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	0/52 (0%)	1/48 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	1/38.30	2/39.79
POLY-3 PERCENT (g)	0%	2.6%	5%
TERMINAL (d)	0/21 (0%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	---	733 (T)	718

**STATISTICAL TESTS**

POLY 3	P=0.298	P=0.517	P=0.266
POLY 1.5	P=0.276	P=0.501	P=0.249
POLY 6	P=0.322	P=0.535	P=0.284
COCH-ARM / FISHERS	P=0.252	P=0.480	P=0.233
MAX-ISO-POLY-3	(e)	P=0.184	P=0.105

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Intestine Large, Colon: Artery  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	0/52 (0%)	1/48 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	1/38.49	2/39.87
POLY-3 PERCENT (g)	0%	2.6%	5%
TERMINAL (d)	0/21 (0%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	---	733 (T)	696

**STATISTICAL TESTS**

POLY 3	P=0.299	P=0.518	P=0.266
POLY 1.5	P=0.277	P=0.502	P=0.249
POLY 6	P=0.324	P=0.537	P=0.285
COCH-ARM / FISHERS	P=0.252	P=0.480	P=0.233
MAX-ISO-POLY-3	(e)	P=0.185	P=0.106

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Intestine Large, Rectum  
 Parasite Metazoan

**LESION RATES**

OVERALL (a)	2/52 (4%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	2/35.36	3/39.93	2/39.79
POLY-3 PERCENT (g)	5.7%	7.5%	5%
TERMINAL (d)	1/21 (5%)	3/25 (12%)	1/25 (4%)
FIRST INCIDENCE	669	733 (T)	718

**STATISTICAL TESTS**

POLY 3	P=0.612	P=0.555	P=0.651N
POLY 1.5	P=0.578	P=0.521	P=0.676N
POLY 6	P=0.645	P=0.591	P=0.626N
COCH-ARM / FISHERS	P=0.529	P=0.481	P=0.668
MAX-ISO-POLY-3	(e)	P=0.381	P=0.454N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Intestine Large, Rectum: Artery  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	1/52 (2%)	1/50 (2%)	5/49 (10%)
POLY-3 RATE (b)	1/35.12	1/39.93	5/40.50
POLY-3 PERCENT (g)	2.9%	2.5%	12.4%
TERMINAL (d)	1/21 (5%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	733 (T)	733 (T)	567

**STATISTICAL TESTS**

POLY 3	P=0.296	P=0.732N	P=0.136
POLY 1.5	P=0.262	P=0.750N	P=0.116
POLY 6	P=0.333	P=0.711N	P=0.162
COCH-ARM / FISHERS	P=0.229	P=0.743	P=0.089
MAX-ISO-POLY-3	(e)	P=0.465N	P=0.079

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney  
 Accumulation, Hyaline Droplet**

**LESION RATES**

OVERALL (a)	1/52 (2%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	1/35.12	0/39.93	2/40.09
POLY-3 PERCENT (g)	2.9%	0%	5%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	---	657

**STATISTICAL TESTS**

POLY 3	P=0.697N	P=0.474N	P=0.546
POLY 1.5	P=0.718N	P=0.490N	P=0.520
POLY 6	P=0.673N	P=0.458N	P=0.574
COCH-ARM / FISHERS	P=0.717	P=0.510N	P=0.478
MAX-ISO-POLY-3	(e)	P=0.160N	P=0.332

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney  
 Calculus Micro Observation Only**

**LESION RATES**

OVERALL (a)	3/52 (6%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	3/35.76	0/39.93	0/39.73
POLY-3 PERCENT (g)	8.4%	0%	0%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	624	---	---

**STATISTICAL TESTS**

POLY 3	P=0.025N*	P=0.099N	P=0.100N
POLY 1.5	P=0.029N*	P=0.111N	P=0.110N
POLY 6	P=0.023N*	P=0.089N	P=0.092N
COCH-ARM / FISHERS	P=0.036N*	P=0.129N	P=0.133N
MAX-ISO-POLY-3	(e)	P=0.038N*	P=0.039N*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney  
 Mineralization**

**LESION RATES**

OVERALL (a)	25/52 (48%)	25/50 (50%)	28/49 (57%)
POLY-3 RATE (b)	25/43.21	25/44.40	28/45.70
POLY-3 PERCENT (g)	57.9%	56.3%	61.3%
TERMINAL (d)	10/21 (48%)	15/25 (60%)	14/25 (56%)
FIRST INCIDENCE	320	158	207

**STATISTICAL TESTS**

POLY 3	P=0.530	P=0.528N	P=0.454
POLY 1.5	P=0.446	P=0.581	P=0.373
POLY 6	P=0.553N	P=0.487N	P=0.537
COCH-ARM / FISHERS	P=0.320	P=0.502	P=0.238
MAX-ISO-POLY-3	(e)	P=0.440N	P=0.372

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney  
 Nephropathy**

**LESION RATES**

OVERALL (a)	42/52 (81%)	46/50 (92%)	48/49 (98%)
POLY-3 RATE (b)	42/46.10	46/46.96	48/48.07
POLY-3 PERCENT (g)	91.1%	98%	99.9%
TERMINAL (d)	20/21 (95%)	25/25 (100%)	25/25 (100%)
FIRST INCIDENCE	378	158	207

**STATISTICAL TESTS**

POLY 3	P=0.010**	P=0.108	P=0.025*
POLY 1.5	P=0.004**	P=0.066	P=0.011*
POLY 6	P=0.034*	P=0.182	P=0.079
COCH-ARM / FISHERS	P=0.007**	P=0.086	P=0.005**
MAX-ISO-POLY-3	(e)	P=0.038*	P=0.006**

---

TDMS No. 20304 - 01  
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 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney  
 Pigmentation**

**LESION RATES**

OVERALL (a)	2/52 (4%)	42/50 (84%)	6/49 (12%)
POLY-3 RATE (b)	2/35.50	42/44.04	6/40.41
POLY-3 PERCENT (g)	5.6%	95.4%	14.9%
TERMINAL (d)	1/21 (5%)	24/25 (96%)	4/25 (16%)
FIRST INCIDENCE	624	567	617

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.176
POLY 1.5	P<0.001**	P<0.001**	P=0.150
POLY 6	P<0.001**	P<0.001**	P=0.207
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.116
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.112

---

TDMS No. 20304 - 01  
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First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Kidney: Pelvis  
Dilatation

---

LESION RATES

OVERALL (a)	0/52 (0%)	0/50 (0%)	3/49 (6%)
POLY-3 RATE (b)	0/35.12	0/39.93	3/40.06
POLY-3 PERCENT (g)	0%	0%	7.5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	---	---	642

---

STATISTICAL TESTS

POLY 3	P=0.298	(e)	P=0.143
POLY 1.5	P=0.275	(e)	P=0.129
POLY 6	P=0.322	(e)	P=0.161
COCH-ARM / FISHERS	P=0.256	(e)	P=0.111
MAX-ISO-POLY-3	(e)	(e)	P=0.062

---

TDMS No. 20304 - 01  
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 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney: Pelvis  
 Inflammation**

**LESION RATES**

OVERALL (a)	0/52 (0%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	2/40.09	2/40.01
POLY-3 PERCENT (g)	0%	5%	5%
TERMINAL (d)	0/21 (0%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	---	692	657

**STATISTICAL TESTS**

POLY 3	P=0.221	P=0.268	P=0.267
POLY 1.5	P=0.201	P=0.248	P=0.250
POLY 6	P=0.245	P=0.290	P=0.287
COCH-ARM / FISHERS	P=0.175	P=0.238	P=0.233
MAX-ISO-POLY-3	(e)	P=0.106	P=0.107

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Kidney: Transitional Epithelium  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/52 (0%)	3/50 (6%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	3/40.09	0/39.73
POLY-3 PERCENT (g)	0%	7.5%	0%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	0/25 (0%)
FIRST INCIDENCE	---	692	---

**STATISTICAL TESTS**

POLY 3	P=0.304	P=0.144	(e)
POLY 1.5	P=0.285	P=0.128	(e)
POLY 6	P=0.324	P=0.163	(e)
COCH-ARM / FISHERS	P=0.256	P=0.114	(e)
MAX-ISO-POLY-3	(e)	P=0.061	(e)

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Angiectasis

**LESION RATES**

OVERALL (a)	0/52 (0%)	2/49 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/35.12	2/39.26	1/39.73
POLY-3 PERCENT (g)	0%	5.1%	2.5%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	1/25 (4%)
FIRST INCIDENCE	---	733 (T)	733 (T)

**STATISTICAL TESTS**

POLY 3	P=0.303	P=0.263	P=0.525
POLY 1.5	P=0.282	P=0.243	P=0.511
POLY 6	P=0.325	P=0.285	P=0.539
COCH-ARM / FISHERS	P=0.254	P=0.233	P=0.485
MAX-ISO-POLY-3	(e)	P=0.103	P=0.191

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Basophilic Focus

**LESION RATES**

OVERALL (a)	15/52 (29%)	1/49 (2%)	9/49 (18%)
POLY-3 RATE (b)	15/38.72	1/39.26	9/39.88
POLY-3 PERCENT (g)	38.7%	2.6%	22.6%
TERMINAL (d)	7/21 (33%)	1/25 (4%)	8/25 (32%)
FIRST INCIDENCE	503	733 (T)	694

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P<0.001N**	P=0.089N
POLY 1.5	P<0.001N**	P<0.001N**	P=0.108N
POLY 6	P<0.001N**	P<0.001N**	P=0.080N
COCH-ARM / FISHERS	P=0.004N**	P<0.001N**	P=0.158N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.060N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Cholangiofibrosis

**LESION RATES**

OVERALL (a)	0/52 (0%)	22/49 (45%)	10/49 (20%)
POLY-3 RATE (b)	0/35.12	22/42.19	10/42.23
POLY-3 PERCENT (g)	0%	52.1%	23.7%
TERMINAL (d)	0/21 (0%)	11/25 (44%)	5/25 (20%)
FIRST INCIDENCE	---	433	433

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.002**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.002**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Clear Cell Focus

**LESION RATES**

OVERALL (a)	15/52 (29%)	0/49 (0%)	13/49 (27%)
POLY-3 RATE (b)	15/38.48	0/39.26	13/41.25
POLY-3 PERCENT (g)	39%	0%	31.5%
TERMINAL (d)	9/21 (43%)	0/25 (0%)	9/25 (36%)
FIRST INCIDENCE	495	---	433

**STATISTICAL TESTS**

POLY 3	P=0.005N**	P<0.001N**	P=0.319N
POLY 1.5	P=0.007N**	P<0.001N**	P=0.375N
POLY 6	P=0.003N**	P<0.001N**	P=0.273N
COCH-ARM / FISHERS	P=0.017N*	P<0.001N**	P=0.485N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.249N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Degeneration Cystic

**LESION RATES**

OVERALL (a)	1/52 (2%)	2/49 (4%)	4/49 (8%)
POLY-3 RATE (b)	1/35.63	2/39.82	4/40.32
POLY-3 PERCENT (g)	2.8%	5%	9.9%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	3/25 (12%)
FIRST INCIDENCE	575	617	545

**STATISTICAL TESTS**

POLY 3	P=0.295	P=0.539	P=0.217
POLY 1.5	P=0.263	P=0.510	P=0.195
POLY 6	P=0.331	P=0.570	P=0.241
COCH-ARM / FISHERS	P=0.225	P=0.478	P=0.163
MAX-ISO-POLY-3	(e)	P=0.324	P=0.124

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Eosinophilic Focus

**LESION RATES**

OVERALL (a)	5/52 (10%)	41/49 (84%)	20/49 (41%)
POLY-3 RATE (b)	5/36.65	41/45.25	20/44.95
POLY-3 PERCENT (g)	13.6%	90.6%	44.5%
TERMINAL (d)	1/21 (5%)	23/25 (92%)	9/25 (36%)
FIRST INCIDENCE	495	433	207

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.002**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.002**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Fatty Change Diffuse

**LESION RATES**

OVERALL (a)	1/52 (2%)	48/49 (98%)	8/49 (16%)
POLY-3 RATE (b)	1/35.28	48/48.86	8/42.66
POLY-3 PERCENT (g)	2.8%	98.2%	18.8%
TERMINAL (d)	0/21 (0%)	25/25 (100%)	4/25 (16%)
FIRST INCIDENCE	692	54	207

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.032*
POLY 1.5	P<0.001**	P<0.001**	P=0.023*
POLY 6	P<0.001**	P<0.001**	P=0.043*
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.012*
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.023*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Fatty Change Focal

**LESION RATES**

OVERALL (a)	2/52 (4%)	0/49 (0%)	9/49 (18%)
POLY-3 RATE (b)	2/35.50	0/39.26	9/41.17
POLY-3 PERCENT (g)	5.6%	0%	21.9%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	6/25 (24%)
FIRST INCIDENCE	624	---	567

**STATISTICAL TESTS**

POLY 3	P=0.259	P=0.215N	P=0.043*
POLY 1.5	P=0.220	P=0.231N	P=0.032*
POLY 6	P=0.302	P=0.199N	P=0.059
COCH-ARM / FISHERS	P=0.194	P=0.263N	P=0.020*
MAX-ISO-POLY-3	(e)	P=0.078N	P=0.029*

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Hematopoietic Cell Proliferation

**LESION RATES**

OVERALL (a)	19/52 (37%)	21/49 (43%)	31/49 (63%)
POLY-3 RATE (b)	19/43.02	21/41.61	31/44.73
POLY-3 PERCENT (g)	44.2%	50.5%	69.3%
TERMINAL (d)	3/21 (14%)	15/25 (60%)	18/25 (72%)
FIRST INCIDENCE	378	433	433

**STATISTICAL TESTS**

POLY 3	P=0.051	P=0.355	P=0.011*
POLY 1.5	P=0.043*	P=0.335	P=0.009**
POLY 6	P=0.050*	P=0.345	P=0.013*
COCH-ARM / FISHERS	P=0.039*	P=0.328	P=0.006**
MAX-ISO-POLY-3	(e)	P=0.278	P=0.008**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
Hyperplasia

**LESION RATES**

OVERALL (a)	0/52 (0%)	43/49 (88%)	4/49 (8%)
POLY-3 RATE (b)	0/35.12	43/44.40	4/40.15
POLY-3 PERCENT (g)	0%	96.8%	10%
TERMINAL (d)	0/21 (0%)	25/25 (100%)	2/25 (8%)
FIRST INCIDENCE	---	433	657

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.078
POLY 1.5	P<0.001**	P<0.001**	P=0.068
POLY 6	P<0.001**	P<0.001**	P=0.092
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.052
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.036*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Liver  
 Inflammation**

**LESION RATES**

OVERALL (a)	21/52 (40%)	44/49 (90%)	47/49 (96%)
POLY-3 RATE (b)	21/39.27	44/48.47	47/48.41
POLY-3 PERCENT (g)	53.5%	90.8%	97.1%
TERMINAL (d)	14/21 (67%)	22/25 (88%)	24/25 (96%)
FIRST INCIDENCE	320	54	207

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Mixed Cell Focus

**LESION RATES**

OVERALL (a)	21/52 (40%)	7/49 (14%)	36/49 (73%)
POLY-3 RATE (b)	21/36.44	7/39.32	36/43.95
POLY-3 PERCENT (g)	57.6%	17.8%	81.9%
TERMINAL (d)	17/21 (81%)	6/25 (24%)	24/25 (96%)
FIRST INCIDENCE	575	718	433

**STATISTICAL TESTS**

POLY 3	P=0.394N	P<0.001N**	P=0.007**
POLY 1.5	P=0.575N	P<0.001N**	P=0.002**
POLY 6	P=0.215N	P<0.001N**	P=0.030*
COCH-ARM / FISHERS	P=0.406	P=0.003N**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.007**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Necrosis

**LESION RATES**

OVERALL (a)	1/52 (2%)	22/49 (45%)	14/49 (29%)
POLY-3 RATE (b)	1/35.59	22/44.52	14/43.52
POLY-3 PERCENT (g)	2.8%	49.4%	32.2%
TERMINAL (d)	0/21 (0%)	11/25 (44%)	4/25 (16%)
FIRST INCIDENCE	593	54	302

**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=0.002**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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

Liver  
 Pigmentation

**LESION RATES**

OVERALL (a)	1/52 (2%)	48/49 (98%)	43/49 (88%)
POLY-3 RATE (b)	1/35.63	48/48.00	43/46.66
POLY-3 PERCENT (g)	2.8%	100%	92.2%
TERMINAL (d)	0/21 (0%)	25/25 (100%)	23/25 (92%)
FIRST INCIDENCE	575	54	302

**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**

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver  
 Toxic Hepatopathy

**LESION RATES**

OVERALL (a)	0/52 (0%)	46/49 (94%)	36/49 (73%)
POLY-3 RATE (b)	0/35.12	46/47.00	36/46.03
POLY-3 PERCENT (g)	0%	97.9%	78.2%
TERMINAL (d)	0/21 (0%)	24/25 (96%)	18/25 (72%)
FIRST INCIDENCE	---	158	302

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Bile Duct  
 Cyst

**LESION RATES**

OVERALL (a)	2/52 (4%)	21/49 (43%)	14/49 (29%)
POLY-3 RATE (b)	2/35.12	21/40.86	14/40.15
POLY-3 PERCENT (g)	5.7%	51.4%	34.9%
TERMINAL (d)	2/21 (10%)	16/25 (64%)	12/25 (48%)
FIRST INCIDENCE	733 (T)	433	657

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.002**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.003**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Liver: Bile Duct  
Fibrosis

---

LESION RATES

OVERALL (a)	2/52 (4%)	0/49 (0%)	7/49 (14%)
POLY-3 RATE (b)	2/35.12	0/39.26	7/39.81
POLY-3 PERCENT (g)	5.7%	0%	17.6%
TERMINAL (d)	2/21 (10%)	0/25 (0%)	6/25 (24%)
FIRST INCIDENCE	733 (T)	---	713

---

STATISTICAL TESTS

POLY 3	P=0.416	P=0.213N	P=0.109
POLY 1.5	P=0.370	P=0.230N	P=0.090
POLY 6	P=0.467	P=0.195N	P=0.132
COCH-ARM / FISHERS	P=0.327	P=0.263N	P=0.067
MAX-ISO-POLY-3	(e)	P=0.078N	P=0.069

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Bile Duct  
 Hyperplasia

**LESION RATES**

OVERALL (a)	5/52 (10%)	40/49 (82%)	25/49 (51%)
POLY-3 RATE (b)	5/35.36	40/43.82	25/42.15
POLY-3 PERCENT (g)	14.1%	91.3%	59.3%
TERMINAL (d)	4/21 (19%)	24/25 (96%)	16/25 (64%)
FIRST INCIDENCE	669	459	545

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Centrilobular  
 Degeneration

**LESION RATES**

OVERALL (a)	1/52 (2%)	1/49 (2%)	2/49 (4%)
POLY-3 RATE (b)	1/35.59	1/39.48	2/39.96
POLY-3 PERCENT (g)	2.8%	2.5%	5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	1/25 (4%)
FIRST INCIDENCE	593	673	671

**STATISTICAL TESTS**

POLY 3	P=0.608	P=0.737N	P=0.540
POLY 1.5	P=0.582	P=0.755N	P=0.517
POLY 6	P=0.636	P=0.717N	P=0.564
COCH-ARM / FISHERS	P=0.548	P=0.737	P=0.478
MAX-ISO-POLY-3	(e)	P=0.471N	P=0.326

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Hepatocyte  
 Hypertrophy

**LESION RATES**

OVERALL (a)	0/52 (0%)	48/49 (98%)	30/49 (61%)
POLY-3 RATE (b)	0/35.12	48/48.00	30/45.58
POLY-3 PERCENT (g)	0%	100%	65.8%
TERMINAL (d)	0/21 (0%)	25/25 (100%)	14/25 (56%)
FIRST INCIDENCE	---	54	207

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Hepatocyte  
 Multinucleated

**LESION RATES**

OVERALL (a)	0/52 (0%)	43/49 (88%)	32/49 (65%)
POLY-3 RATE (b)	0/35.12	43/47.35	32/45.74
POLY-3 PERCENT (g)	0%	90.8%	70%
TERMINAL (d)	0/21 (0%)	23/25 (92%)	18/25 (72%)
FIRST INCIDENCE	---	54	302

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Liver: Oval Cell  
 Hyperplasia

**LESION RATES**

OVERALL (a)	0/52 (0%)	46/49 (94%)	29/49 (59%)
POLY-3 RATE (b)	0/35.12	46/46.01	29/43.02
POLY-3 PERCENT (g)	0%	100%	67.4%
TERMINAL (d)	0/21 (0%)	25/25 (100%)	17/25 (68%)
FIRST INCIDENCE	---	433	545

**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**

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Lung  
 Inflammation**

**LESION RATES**

OVERALL (a)	5/51 (10%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	5/35.33	2/39.35	2/39.94
POLY-3 PERCENT (g)	14.2%	5.1%	5%
TERMINAL (d)	4/21 (19%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	658	711	680

**STATISTICAL TESTS**

POLY 3	P=0.102N	P=0.172N	P=0.167N
POLY 1.5	P=0.121N	P=0.201N	P=0.191N
POLY 6	P=0.084N	P=0.143N	P=0.143N
COCH-ARM / FISHERS	P=0.144N	P=0.226N	P=0.226N
MAX-ISO-POLY-3	(e)	P=0.101N	P=0.099N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Lung  
 Metaplasia**

**LESION RATES**

OVERALL (a)	1/51 (2%)	13/50 (26%)	0/50 (0%)
POLY-3 RATE (b)	1/35.05	13/40.02	0/39.74
POLY-3 PERCENT (g)	2.9%	32.5%	0%
TERMINAL (d)	1/21 (5%)	8/25 (32%)	0/25 (0%)
FIRST INCIDENCE	733 (T)	672	---

**STATISTICAL TESTS**

POLY 3	P=0.034*	P<0.001**	P=0.475N
POLY 1.5	P=0.026*	P<0.001**	P=0.488N
POLY 6	P=0.044*	P=0.002**	P=0.461N
COCH-ARM / FISHERS	P=0.028*	P<0.001**	P=0.505N
MAX-ISO-POLY-3 (e)		P<0.001**	P=0.159N

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Lung: Alveolar Epithelium  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	4/51 (8%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	4/35.21	0/39.26	3/39.74
POLY-3 PERCENT (g)	11.4%	0%	7.6%
TERMINAL (d)	3/21 (14%)	0/25 (0%)	3/25 (12%)
FIRST INCIDENCE	692	---	733 (T)

**STATISTICAL TESTS**

POLY 3	P=0.133N	P=0.047N*	P=0.434N
POLY 1.5	P=0.155N	P=0.055N	P=0.467N
POLY 6	P=0.113N	P=0.038N*	P=0.398N
COCH-ARM / FISHERS	P=0.176N	P=0.061N	P=0.511N
MAX-ISO-POLY-3	(e)	P=0.019N*	P=0.298N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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

**Lung: Alveolar Epithelium  
 Metaplasia Bronchiolar**

**LESION RATES**

OVERALL (a)	6/51 (12%)	40/50 (80%)	32/50 (64%)
POLY-3 RATE (b)	6/35.05	40/44.86	32/44.51
POLY-3 PERCENT (g)	17.1%	89.2%	71.9%
TERMINAL (d)	6/21 (29%)	23/25 (92%)	17/25 (68%)
FIRST INCIDENCE	733 (T)	459	545

**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**

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Lung: Alveolus  
 Infiltration Cellular Histiocyte**

**LESION RATES**

OVERALL (a)	36/51 (71%)	40/50 (80%)	40/50 (80%)
POLY-3 RATE (b)	36/44.55	40/44.32	40/45.42
POLY-3 PERCENT (g)	80.8%	90.3%	88.1%
TERMINAL (d)	16/21 (76%)	22/25 (88%)	22/25 (88%)
FIRST INCIDENCE	320	484	545

**STATISTICAL TESTS**

POLY 3	P=0.128	P=0.148	P=0.237
POLY 1.5	P=0.082	P=0.099	P=0.185
POLY 6	P=0.219	P=0.243	P=0.325
COCH-ARM / FISHERS	P=0.137	P=0.194	P=0.194
MAX-ISO-POLY-3	(e)	P=0.085	P=0.154

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Lymph Node, Mandibular  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	24/51 (47%)	19/51 (37%)	22/50 (44%)
POLY-3 RATE (b)	24/39.84	19/40.86	22/40.91
POLY-3 PERCENT (g)	60.2%	46.5%	53.8%
TERMINAL (d)	13/21 (62%)	14/25 (56%)	17/25 (68%)
FIRST INCIDENCE	495	652	630

**STATISTICAL TESTS**

POLY 3	P=0.189N	P=0.145N	P=0.352N
POLY 1.5	P=0.236N	P=0.188N	P=0.395N
POLY 6	P=0.156N	P=0.114N	P=0.325N
COCH-ARM / FISHERS	P=0.279N	P=0.211N	P=0.457N
MAX-ISO-POLY-3	(e)	P=0.100N	P=0.273N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Lymph Node, Mesenteric  
Hemorrhage

---

LESION RATES

OVERALL (a)	0/52 (0%)	0/47 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	0/37.63	2/40.29
POLY-3 PERCENT (g)	0%	0%	5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	642

STATISTICAL TESTS

---

POLY 3	P=0.422	(e)	P=0.269
POLY 1.5	P=0.400	(e)	P=0.251
POLY 6	P=0.447	(e)	P=0.290
COCH-ARM / FISHERS	P=0.381	(e)	P=0.233
MAX-ISO-POLY-3	(e)	(e)	P=0.108

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Mammary Gland  
 Cyst**

**LESION RATES**

OVERALL (a)	1/52 (2%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	1/35.12	0/39.93	5/40.05
POLY-3 PERCENT (g)	2.9%	0%	12.5%
TERMINAL (d)	1/21 (5%)	0/25 (0%)	3/25 (12%)
FIRST INCIDENCE	733 (T)	---	672

**STATISTICAL TESTS**

POLY 3	P=0.383	P=0.474N	P=0.133
POLY 1.5	P=0.347	P=0.490N	P=0.115
POLY 6	P=0.420	P=0.458N	P=0.156
COCH-ARM / FISHERS	P=0.314	P=0.510N	P=0.094
MAX-ISO-POLY-3	(e)	P=0.160N	P=0.075

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Mammary Gland  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	4/52 (8%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	4/35.52	1/39.93	4/39.74
POLY-3 PERCENT (g)	11.3%	2.5%	10.1%
TERMINAL (d)	2/21 (10%)	1/25 (4%)	4/25 (16%)
FIRST INCIDENCE	658	733 (T)	733 (T)

**STATISTICAL TESTS**

POLY 3	P=0.297N	P=0.144N	P=0.581N
POLY 1.5	P=0.333N	P=0.165N	P=0.616N
POLY 6	P=0.264N	P=0.125N	P=0.547N
COCH-ARM / FISHERS	P=0.380N	P=0.194N	P=0.620
MAX-ISO-POLY-3	(e)	P=0.075N	P=0.436N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Mammary Gland  
 Inflammation Granulomatous**

**LESION RATES**

OVERALL (a)	0/52 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/35.12	0/39.93	4/39.83
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	---	---	718

**STATISTICAL TESTS**

POLY 3	P=0.216	(e)	P=0.077
POLY 1.5	P=0.194	(e)	P=0.067
POLY 6	P=0.240	(e)	P=0.089
COCH-ARM / FISHERS	P=0.177	(e)	P=0.054
MAX-ISO-POLY-3	(e)	(e)	P=0.034*

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Mesentery: Artery  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	1/2 (50%)	8/9 (89%)	5/9 (56%)
POLY-3 RATE (b)	1/1.00	8/8.25	5/8.21
POLY-3 PERCENT (g)	99.6%	97%	60.9%
TERMINAL (d)	1/1 (100%)	4/4 (100%)	3/3 (100%)
FIRST INCIDENCE	733 (T)	672	718

**STATISTICAL TESTS**

POLY 3	P=0.760N	P=1.000N	P=0.606N
POLY 1.5	P=0.743N	P=0.989	P=0.604N
POLY 6	P=0.833N	P=1.000N	P=0.654N
COCH-ARM / FISHERS	P=0.565	P=0.345	P=0.727
MAX-ISO-POLY-3	(e)	P=0.437N	P=0.330N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Nose  
 Inflammation**

**LESION RATES**

OVERALL (a)	1/52 (2%)	23/52 (44%)	8/50 (16%)
POLY-3 RATE (b)	1/35.77	23/41.99	8/41.49
POLY-3 PERCENT (g)	2.8%	54.8%	19.3%
TERMINAL (d)	0/21 (0%)	14/25 (56%)	3/25 (12%)
FIRST INCIDENCE	516	484	433

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.027*
POLY 1.5	P<0.001**	P<0.001**	P=0.020*
POLY 6	P<0.001**	P<0.001**	P=0.037*
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.013*
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.017*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Nose: Respiratory Epithelium  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	5/52 (10%)	27/52 (52%)	9/50 (18%)
POLY-3 RATE (b)	5/38.42	27/43.18	9/40.54
POLY-3 PERCENT (g)	13%	62.5%	22.2%
TERMINAL (d)	1/21 (5%)	19/25 (76%)	6/25 (24%)
FIRST INCIDENCE	119	75	567

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.218
POLY 1.5	P<0.001**	P<0.001**	P=0.192
POLY 6	P<0.001**	P<0.001**	P=0.251
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P=0.173
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.149

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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

Ovary  
Cyst

**LESION RATES**

OVERALL (a)	8/52 (15%)	7/48 (15%)	10/49 (20%)
POLY-3 RATE (b)	8/37.29	7/38.60	10/40.84
POLY-3 PERCENT (g)	21.5%	18.1%	24.5%
TERMINAL (d)	4/21 (19%)	5/25 (20%)	5/25 (20%)
FIRST INCIDENCE	446	677	582

**STATISTICAL TESTS**

POLY 3	P=0.593	P=0.470N	P=0.480
POLY 1.5	P=0.534	P=0.520N	P=0.427
POLY 6	P=0.534N	P=0.417N	P=0.538
COCH-ARM / FISHERS	P=0.459	P=0.568N	P=0.345
MAX-ISO-POLY-3	(e)	P=0.362N	P=0.380

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Ovary  
 Inflammation**

**LESION RATES**

OVERALL (a)	0/52 (0%)	2/48 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/35.12	2/38.30	1/39.73
POLY-3 PERCENT (g)	0%	5.2%	2.5%
TERMINAL (d)	0/21 (0%)	2/25 (8%)	1/25 (4%)
FIRST INCIDENCE	---	733 (T)	733 (T)

**STATISTICAL TESTS**

POLY 3	P=0.300	P=0.257	P=0.525
POLY 1.5	P=0.280	P=0.238	P=0.511
POLY 6	P=0.322	P=0.278	P=0.539
COCH-ARM / FISHERS	P=0.252	P=0.228	P=0.485
MAX-ISO-POLY-3	(e)	P=0.098	P=0.191

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Pancreas  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	0/52 (0%)	2/47 (4%)	4/49 (8%)
POLY-3 RATE (b)	0/35.12	2/38.61	4/40.54
POLY-3 PERCENT (g)	0%	5.2%	9.9%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	---	459	589

**STATISTICAL TESTS**

POLY 3	P=0.118	P=0.259	P=0.080
POLY 1.5	P=0.099	P=0.237	P=0.068
POLY 6	P=0.143	P=0.285	P=0.095
COCH-ARM / FISHERS	P=0.080	P=0.223	P=0.052
MAX-ISO-POLY-3	(e)	P=0.101	P=0.038*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Pancreas: Acinus  
Atrophy Focal

---

LESION RATES

OVERALL (a)	4/52 (8%)	1/47 (2%)	4/49 (8%)
POLY-3 RATE (b)	4/35.79	1/38.03	4/40.54
POLY-3 PERCENT (g)	11.2%	2.6%	9.9%
TERMINAL (d)	3/21 (14%)	0/25 (0%)	2/25 (8%)
FIRST INCIDENCE	503	617	589

STATISTICAL TESTS

---

POLY 3	P=0.312N	P=0.159N	P=0.574N
POLY 1.5	P=0.352N	P=0.183N	P=0.614N
POLY 6	P=0.270N	P=0.134N	P=0.529N
COCH-ARM / FISHERS	P=0.404N	P=0.214N	P=0.608
MAX-ISO-POLY-3	(e)	P=0.082N	P=0.430N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Pancreas: Acinus  
 Vacuolization Cytoplasmic**

**LESION RATES**

OVERALL (a)	0/52 (0%)	42/47 (89%)	10/49 (20%)
POLY-3 RATE (b)	0/35.12	42/43.26	10/41.44
POLY-3 PERCENT (g)	0%	97.1%	24.1%
TERMINAL (d)	0/21 (0%)	24/25 (96%)	5/25 (20%)
FIRST INCIDENCE	---	433	433

**STATISTICAL TESTS**

POLY 3	P<0.001**	P<0.001**	P=0.002**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.003**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	P<0.001**	P<0.001**

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Pancreas: Artery  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	1/52 (2%)	12/47 (26%)	5/49 (10%)
POLY-3 RATE (b)	1/35.12	12/38.70	5/40.16
POLY-3 PERCENT (g)	2.9%	31%	12.5%
TERMINAL (d)	1/21 (5%)	9/25 (36%)	2/25 (8%)
FIRST INCIDENCE	733 (T)	567	672

**STATISTICAL TESTS**

POLY 3	P=0.012*	P<0.001**	P=0.134
POLY 1.5	P=0.008**	P<0.001**	P=0.114
POLY 6	P=0.019*	P=0.003**	P=0.158
COCH-ARM / FISHERS	P=0.006**	P<0.001**	P=0.089
MAX-ISO-POLY-3 (e)		P<0.001**	P=0.077

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Pancreas: Duct  
 Dilatation**

**LESION RATES**

OVERALL (a)	0/52 (0%)	3/47 (6%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	3/38.92	0/39.73
POLY-3 PERCENT (g)	0%	7.7%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	459	---

**STATISTICAL TESTS**

POLY 3	P=0.296	P=0.138	(e)
POLY 1.5	P=0.277	P=0.119	(e)
POLY 6	P=0.316	P=0.162	(e)
COCH-ARM / FISHERS	P=0.249	P=0.103	(e)
MAX-ISO-POLY-3	(e)	P=0.058	(e)

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Pancreas: Duct  
 Inflammation**

**LESION RATES**

OVERALL (a)	0/52 (0%)	2/47 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	2/38.16	0/39.73
POLY-3 PERCENT (g)	0%	5.2%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	617	---

**STATISTICAL TESTS**

POLY 3	P=0.428	P=0.256	(e)
POLY 1.5	P=0.410	P=0.235	(e)
POLY 6	P=0.446	P=0.282	(e)
COCH-ARM / FISHERS	P=0.381	P=0.223	(e)
MAX-ISO-POLY-3	(e)	P=0.099	(e)

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Pituitary Gland: Pars Distalis  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	10/52 (19%)	10/52 (19%)	10/50 (20%)
POLY-3 RATE (b)	10/36.06	10/40.49	10/40.59
POLY-3 PERCENT (g)	27.7%	24.7%	24.6%
TERMINAL (d)	8/21 (38%)	6/25 (24%)	7/25 (28%)
FIRST INCIDENCE	516	623	617

**STATISTICAL TESTS**

POLY 3	P=0.452N	P=0.484N	P=0.481N
POLY 1.5	P=0.531N	P=0.558N	P=0.548N
POLY 6	P=0.368N	P=0.401N	P=0.407N
COCH-ARM / FISHERS	P=0.563	P=0.598N	P=0.560
MAX-ISO-POLY-3	(e)	P=0.385N	P=0.384N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Spleen  
Hematopoietic Cell Proliferation

---

LESION RATES

OVERALL (a)	42/52 (81%)	34/47 (72%)	43/49 (88%)
POLY-3 RATE (b)	42/48.24	34/41.98	43/47.43
POLY-3 PERCENT (g)	87.1%	81%	90.7%
TERMINAL (d)	17/21 (81%)	21/25 (84%)	23/25 (92%)
FIRST INCIDENCE	291	433	302

STATISTICAL TESTS

---

POLY 3	P=0.556N	P=0.297N	P=0.403
POLY 1.5	P=0.591N	P=0.307N	P=0.337
POLY 6	P=0.534N	P=0.306N	P=0.472
COCH-ARM / FISHERS	P=0.554N	P=0.226N	P=0.246
MAX-ISO-POLY-3	(e)	P=0.210N	P=0.279

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Spleen  
 Pigmentation**

**LESION RATES**

OVERALL (a)	39/52 (75%)	28/47 (60%)	31/49 (63%)
POLY-3 RATE (b)	39/46.36	28/45.26	31/44.56
POLY-3 PERCENT (g)	84.1%	61.9%	69.6%
TERMINAL (d)	18/21 (86%)	12/25 (48%)	19/25 (76%)
FIRST INCIDENCE	320	54	207

**STATISTICAL TESTS**

POLY 3	P=0.014N*	P=0.010N**	P=0.064N
POLY 1.5	P=0.024N*	P=0.021N*	P=0.080N
POLY 6	P=0.008N**	P=0.004N**	P=0.053N
COCH-ARM / FISHERS	P=0.069N	P=0.077N	P=0.144N
MAX-ISO-POLY-3	(e)	P=0.006N**	P=0.037N*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Spleen: Lymphoid Follicle  
 Atrophy

**LESION RATES**

OVERALL (a)	3/52 (6%)	3/47 (6%)	1/49 (2%)
POLY-3 RATE (b)	3/36.51	3/38.54	1/40.09
POLY-3 PERCENT (g)	8.2%	7.8%	2.5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	512	620	630

**STATISTICAL TESTS**

POLY 3	P=0.410N	P=0.638N	P=0.272N
POLY 1.5	P=0.439N	P=0.653	P=0.291N
POLY 6	P=0.382N	P=0.598N	P=0.254N
COCH-ARM / FISHERS	P=0.487N	P=0.612	P=0.332N
MAX-ISO-POLY-3	(e)	P=0.473N	P=0.145N

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Spleen: Red Pulp  
 Atrophy

**LESION RATES**

OVERALL (a)	0/52 (0%)	3/47 (6%)	0/49 (0%)
POLY-3 RATE (b)	0/35.12	3/38.54	0/39.73
POLY-3 PERCENT (g)	0%	7.8%	0%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	620	---

**STATISTICAL TESTS**

POLY 3	P=0.296	P=0.136	(e)
POLY 1.5	P=0.277	P=0.118	(e)
POLY 6	P=0.316	P=0.160	(e)
COCH-ARM / FISHERS	P=0.249	P=0.103	(e)
MAX-ISO-POLY-3	(e)	P=0.056	(e)

---



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Stomach, Forestomach  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/52 (0%)	3/51 (6%)	5/49 (10%)
POLY-3 RATE (b)	0/35.12	3/40.68	5/40.89
POLY-3 PERCENT (g)	0%	7.4%	12.2%
TERMINAL (d)	0/21 (0%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	---	567	575

**STATISTICAL TESTS**

POLY 3	P=0.068	P=0.147	P=0.045*
POLY 1.5	P=0.054	P=0.129	P=0.036*
POLY 6	P=0.086	P=0.168	P=0.057
COCH-ARM / FISHERS	P=0.043*	P=0.118	P=0.024*
MAX-ISO-POLY-3	(e)	P=0.063	P=0.023*

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Stomach, Forestomach  
 Inflammation**

**LESION RATES**

OVERALL (a)	2/52 (4%)	1/51 (2%)	4/49 (8%)
POLY-3 RATE (b)	2/35.62	1/39.93	4/40.65
POLY-3 PERCENT (g)	5.6%	2.5%	9.8%
TERMINAL (d)	0/21 (0%)	1/25 (4%)	1/25 (4%)
FIRST INCIDENCE	662	733 (T)	575

**STATISTICAL TESTS**

POLY 3	P=0.605	P=0.460N	P=0.399
POLY 1.5	P=0.570	P=0.485N	P=0.364
POLY 6	P=0.638	P=0.436N	P=0.436
COCH-ARM / FISHERS	P=0.534	P=0.507N	P=0.311
MAX-ISO-POLY-3	(e)	P=0.259N	P=0.265

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Stomach, Forestomach  
 Ulcer

**LESION RATES**

OVERALL (a)	2/52 (4%)	0/51 (0%)	3/49 (6%)
POLY-3 RATE (b)	2/35.62	0/39.93	3/40.14
POLY-3 PERCENT (g)	5.6%	0%	7.5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	1/25 (4%)
FIRST INCIDENCE	662	---	642

**STATISTICAL TESTS**

POLY 3	P=0.522N	P=0.212N	P=0.554
POLY 1.5	P=0.551N	P=0.227N	P=0.524
POLY 6	P=0.493N	P=0.198N	P=0.584
COCH-ARM / FISHERS	P=0.580N	P=0.252N	P=0.472
MAX-ISO-POLY-3	(e)	P=0.076N	P=0.380

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Stomach, Glandular  
 Erosion**

**LESION RATES**

OVERALL (a)	0/52 (0%)	0/51 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	0/39.93	2/40.89
POLY-3 PERCENT (g)	0%	0%	4.9%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	---	302

**STATISTICAL TESTS**

POLY 3	P=0.423	(e)	P=0.273
POLY 1.5	P=0.402	(e)	P=0.254
POLY 6	P=0.445	(e)	P=0.293
COCH-ARM / FISHERS	P=0.391	(e)	P=0.233
MAX-ISO-POLY-3	(e)	(e)	P=0.112

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
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Date Report Requested: 07/14/2008  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Thymus  
 Atrophy

**LESION RATES**

OVERALL (a)	41/51 (80%)	44/49 (90%)	46/50 (92%)
POLY-3 RATE (b)	41/47.18	44/44.79	46/48.03
POLY-3 PERCENT (g)	86.9%	98.2%	95.8%
TERMINAL (d)	17/21 (81%)	24/24 (100%)	23/25 (92%)
FIRST INCIDENCE	320	433	302

**STATISTICAL TESTS**

POLY 3	P=0.019*	P=0.033*	P=0.105
POLY 1.5	P=0.010**	P=0.024*	P=0.070
POLY 6	P=0.041*	P=0.051	P=0.172
COCH-ARM / FISHERS	P=0.058	P=0.150	P=0.080
MAX-ISO-POLY-3	(e)	P=0.013*	P=0.052

---

TDMS No. 20304 - 01  
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 Species/Strain: RATS/SD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Thymus  
 Hemorrhage

**LESION RATES**

OVERALL (a)	0/51 (0%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/35.05	3/41.26	0/39.74
POLY-3 PERCENT (g)	0%	7.3%	0%
TERMINAL (d)	0/21 (0%)	0/24 (0%)	0/25 (0%)
FIRST INCIDENCE	---	54	---

**STATISTICAL TESTS**

POLY 3	P=0.297	P=0.150	(e)
POLY 1.5	P=0.280	P=0.134	(e)
POLY 6	P=0.317	P=0.171	(e)
COCH-ARM / FISHERS	P=0.261	P=0.114	(e)
MAX-ISO-POLY-3	(e)	P=0.067	(e)

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
TEF evaluation (PCB 118)  
CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
Time Report Requested: 11:10:08  
First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Thymus: Artery  
Inflammation Chronic

---

LESION RATES

OVERALL (a)	0/51 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/35.05	2/38.79	0/39.74
POLY-3 PERCENT (g)	0%	5.2%	0%
TERMINAL (d)	0/21 (0%)	1/24 (4%)	0/25 (0%)
FIRST INCIDENCE	---	567	---

STATISTICAL TESTS

---

POLY 3	P=0.430	P=0.260	(e)
POLY 1.5	P=0.414	P=0.241	(e)
POLY 6	P=0.448	P=0.283	(e)
COCH-ARM / FISHERS	P=0.393	P=0.238	(e)
MAX-ISO-POLY-3	(e)	P=0.099	(e)

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Thyroid Gland: C-Cell  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	10/51 (20%)	11/49 (22%)	9/50 (18%)
POLY-3 RATE (b)	10/36.01	11/40.25	9/41.40
POLY-3 PERCENT (g)	27.8%	27.3%	21.7%
TERMINAL (d)	8/21 (38%)	9/25 (36%)	4/25 (16%)
FIRST INCIDENCE	503	433	433

**STATISTICAL TESTS**

POLY 3	P=0.443N	P=0.585N	P=0.362N
POLY 1.5	P=0.524N	P=0.539	P=0.430N
POLY 6	P=0.356N	P=0.500N	P=0.291N
COCH-ARM / FISHERS	P=0.551	P=0.459	P=0.519N
MAX-ISO-POLY-3	(e)	P=0.483N	P=0.282N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

**Thyroid Gland: Follicular Cell  
 Hypertrophy**

**LESION RATES**

OVERALL (a)	6/51 (12%)	23/49 (47%)	12/50 (24%)
POLY-3 RATE (b)	6/37.84	23/43.61	12/44.06
POLY-3 PERCENT (g)	15.9%	52.7%	27.2%
TERMINAL (d)	1/21 (5%)	13/25 (52%)	3/25 (12%)
FIRST INCIDENCE	446	54	302

**STATISTICAL TESTS**

POLY 3	P=0.006**	P<0.001**	P=0.165
POLY 1.5	P=0.003**	P<0.001**	P=0.129
POLY 6	P=0.012*	P<0.001**	P=0.210
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P=0.089
MAX-ISO-POLY-3	(e)	P<0.001**	P=0.124

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 TEF evaluation (PCB 118)  
 CAS Number: 31508-00-6

Date Report Requested: 07/14/2008  
 Time Report Requested: 11:10:08  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Tooth: Peridental Tissue  
 Inflammation

**LESION RATES**

OVERALL (a)	7/10 (70%)	6/7 (86%)	7/7 (100%)
POLY-3 RATE (b)	7/7.98	6/7.00	7/7.00
POLY-3 PERCENT (g)	87.7%	85.7%	100%
TERMINAL (d)	4/4 (100%)	4/5 (80%)	6/6 (100%)
FIRST INCIDENCE	516	718	545

**STATISTICAL TESTS**

POLY 3	P=0.642	P=0.744N	P=0.538
POLY 1.5	P=0.515	P=0.732	P=0.404
POLY 6	P=0.737	P=0.700N	P=0.667
COCH-ARM / FISHERS	P=0.177	P=0.441	P=0.176
MAX-ISO-POLY-3	(e)	P=0.455N	P=0.144

---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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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 NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Ureter  
Cyst

---

LESION RATES

OVERALL (a)	0/0 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	642

---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Uterus  
 Hemorrhage

**LESION RATES**

OVERALL (a)	0/52 (0%)	1/49 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/35.12	1/39.16	2/40.33
POLY-3 PERCENT (g)	0%	2.6%	5%
TERMINAL (d)	0/21 (0%)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	711	630

**STATISTICAL TESTS**

POLY 3	P=0.301	P=0.522	P=0.269
POLY 1.5	P=0.279	P=0.506	P=0.251
POLY 6	P=0.326	P=0.539	P=0.290
COCH-ARM / FISHERS	P=0.254	P=0.485	P=0.233
MAX-ISO-POLY-3	(e)	P=0.188	P=0.109

---

TDMS No. 20304 - 01  
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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First Dose M/F: NA / 03/26/04  
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
TERMINAL SACRIFICE AT 105 WEEKS

---

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

---

Uterus  
Inflammation

---

LESION RATES

OVERALL (a)	4/52 (8%)	4/49 (8%)	10/49 (20%)
POLY-3 RATE (b)	4/36.67	4/39.16	10/41.68
POLY-3 PERCENT (g)	10.9%	10.2%	24%
TERMINAL (d)	1/21 (5%)	3/25 (12%)	4/25 (16%)
FIRST INCIDENCE	446	711	582

---

STATISTICAL TESTS

POLY 3	P=0.261	P=0.608N	P=0.111
POLY 1.5	P=0.220	P=0.642N	P=0.086
POLY 6	P=0.308	P=0.573N	P=0.145
COCH-ARM / FISHERS	P=0.179	P=0.608	P=0.059
MAX-ISO-POLY-3	(e)	P=0.462N	P=0.079

---

TDMS No. 20304 - 01  
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Uterus  
 Metaplasia

**LESION RATES**

OVERALL (a)	29/52 (56%)	5/49 (10%)	23/49 (47%)
POLY-3 RATE (b)	29/45.63	5/39.87	23/42.81
POLY-3 PERCENT (g)	63.6%	12.5%	53.7%
TERMINAL (d)	11/21 (52%)	3/25 (12%)	14/25 (56%)
FIRST INCIDENCE	291	484	433

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P<0.001N**	P=0.228N
POLY 1.5	P<0.001N**	P<0.001N**	P=0.226N
POLY 6	P<0.001N**	P<0.001N**	P=0.242N
COCH-ARM / FISHERS	P<0.001N**	P<0.001N**	P=0.246N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.170N

---

TDMS No. 20304 - 01  
 Test Type: CHRONIC  
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 First Dose M/F: NA / 03/26/04  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

---

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

---

Uterus: Endometrium  
 Hyperplasia Cystic

**LESION RATES**

OVERALL (a)	28/52 (54%)	9/49 (18%)	21/49 (43%)
POLY-3 RATE (b)	28/41.37	9/40.28	21/43.09
POLY-3 PERCENT (g)	67.7%	22.4%	48.7%
TERMINAL (d)	15/21 (71%)	4/25 (16%)	14/25 (56%)
FIRST INCIDENCE	320	484	433

**STATISTICAL TESTS**

POLY 3	P<0.001N**	P<0.001N**	P=0.051N
POLY 1.5	P<0.001N**	P<0.001N**	P=0.087N
POLY 6	P<0.001N**	P<0.001N**	P=0.029N*
COCH-ARM / FISHERS	P=0.005N**	P<0.001N**	P=0.183N
MAX-ISO-POLY-3	(e)	P<0.001N**	P=0.036N*

---

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

TEF evaluation (PCB 118)  
**CAS Number:** 31508-00-6

**Date Report Requested:** 07/14/2008  
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**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.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
  - (e) Value of Statistic cannot be computed.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.  
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*