

**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:** 06/26/2008  
**Time Report Requested:** 12:21:48  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

F1\_R8\_C\_S

**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 25018 DACC  
**Removal Date Range:** ALL  
**Treatment Groups:** Include 001 0 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  
  
Bone Marrow  
  
Clitoral Gland  
Kidney  
  
Liver  
  
Liver: Bile Duct  
  
Liver: Hepatocyte  
  
Liver: Oval Cell  
Lung: Alveolar Epithelium  
Mammary Gland  
Nose  
Pancreas  
Pancreas: Acinus  
Spleen  
Stomach, Forestomach  
Uterus: Endometrium

**Morphology**

Necrosis  
Vacuolization Cytoplasmic  
Atrophy  
Hyperplasia  
Inflammation  
Calculus Micro Observation Only  
Nephropathy  
Cholangiofibrosis  
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  
Metaplasia Bronchiolar  
Inflammation Granulomatous  
Inflammation  
Inflammation Chronic  
Vacuolization Cytoplasmic  
Pigmentation  
Hyperplasia  
Hyperplasia Cystic

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Cortex  
Atrophy

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.218
POLY 1.5	P=0.195
POLY 6	P=0.244
COCH-ARM / FISHERS	P=0.163
MAX-ISO-POLY-3	P=0.123

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Cortex  
Degeneration Cystic

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.393
POLY 1.5	P=0.341
POLY 6	P=0.443
COCH-ARM / FISHERS	P=0.260
MAX-ISO-POLY-3	P=0.307

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TERMINAL SACRIFICE AT 105 WEEKS

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Cortex  
Hyperplasia

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.159
POLY 1.5	P=0.117
POLY 6	P=0.211
COCH-ARM / FISHERS	P=0.070
MAX-ISO-POLY-3	P=0.122

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TERMINAL SACRIFICE AT 105 WEEKS

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Cortex  
Hypertrophy

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.524N
POLY 1.5	P=0.560
POLY 6	P=0.324N
COCH-ARM / FISHERS	P=0.307
MAX-ISO-POLY-3	P=0.377N

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Cortex  
Necrosis

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.084
POLY 1.5	P=0.070
POLY 6	P=0.102
COCH-ARM / FISHERS	P=0.052
MAX-ISO-POLY-3	P=0.041*

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Lab: BAT

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

Females

DOSE                      0 UG/KG                      4600 UG/KG  
STOP

Adrenal Cortex  
Vacuolization Cytoplasmic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.034*
POLY 1.5	P=0.019*
POLY 6	P=0.066
COCH-ARM / FISHERS	P=0.009**
MAX-ISO-POLY-3	P=0.028*



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TERMINAL SACRIFICE AT 105 WEEKS

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Adrenal Medulla  
Hyperplasia

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.283
POLY 1.5	P=0.219
POLY 6	P=0.357
COCH-ARM / FISHERS	P=0.140
MAX-ISO-POLY-3	P=0.223

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TERMINAL SACRIFICE AT 105 WEEKS

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Bone Marrow  
Atrophy

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.048N*
POLY 1.5	P=0.055N
POLY 6	P=0.042N*
COCH-ARM / FISHERS	P=0.064N
MAX-ISO-POLY-3	P=0.019N*

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Bone Marrow  
Hyperplasia

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.007**
POLY 1.5	P=0.005**
POLY 6	P=0.009**
COCH-ARM / FISHERS	P=0.003**
MAX-ISO-POLY-3	P=0.004**

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Brain  
Hemorrhage

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.271N
POLY 1.5	P=0.291N
POLY 6	P=0.253N
COCH-ARM / FISHERS	P=0.324N
MAX-ISO-POLY-3	P=0.143N

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Brain  
Necrosis

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.214N
POLY 1.5	P=0.227N
POLY 6	P=0.201N
COCH-ARM / FISHERS	P=0.257N
MAX-ISO-POLY-3	P=0.076N

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Clitoral Gland  
Inflammation

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LESION RATES

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

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STATISTICAL TESTS

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

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Clitoral Gland: Duct  
Cyst

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.470N
POLY 1.5	P=0.543
POLY 6	P=0.312N
COCH-ARM / FISHERS	P=0.263
MAX-ISO-POLY-3	P=0.387N

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Harderian Gland  
Infiltration Cellular Mononuclear Cell

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.287
POLY 1.5	P=0.244
POLY 6	P=0.335
COCH-ARM / FISHERS	P=0.192
MAX-ISO-POLY-3	P=0.215

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---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Heart  
Cardiomyopathy

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.212
POLY 1.5	P=0.163
POLY 6	P=0.278
COCH-ARM / FISHERS	P=0.115
MAX-ISO-POLY-3	P=0.164

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---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Intestine Large, Cecum: Artery  
Inflammation Chronic

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.266
POLY 1.5	P=0.249
POLY 6	P=0.284
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	P=0.105

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Intestine Large, Colon: Artery  
Inflammation Chronic

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.266
POLY 1.5	P=0.249
POLY 6	P=0.285
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	P=0.106

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TERMINAL SACRIFICE AT 105 WEEKS

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Intestine Large, Rectum  
Parasite Metazoan

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.651N
POLY 1.5	P=0.676N
POLY 6	P=0.626N
COCH-ARM / FISHERS	P=0.668
MAX-ISO-POLY-3	P=0.453N

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Intestine Large, Rectum: Artery  
Inflammation Chronic

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.136
POLY 1.5	P=0.116
POLY 6	P=0.162
COCH-ARM / FISHERS	P=0.089
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney  
Accumulation, Hyaline Droplet

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.546
POLY 1.5	P=0.520
POLY 6	P=0.574
COCH-ARM / FISHERS	P=0.478
MAX-ISO-POLY-3	P=0.330

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney  
Calculus Micro Observation Only

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.100N
POLY 1.5	P=0.110N
POLY 6	P=0.092N
COCH-ARM / FISHERS	P=0.133N
MAX-ISO-POLY-3	P=0.039N*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney  
Mineralization

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.454
POLY 1.5	P=0.373
POLY 6	P=0.537
COCH-ARM / FISHERS	P=0.238
MAX-ISO-POLY-3	P=0.371

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

Females

DOSE                                      0 UG/KG                                      4600 UG/KG  
STOP

Kidney  
Nephropathy

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.025*
POLY 1.5	P=0.011*
POLY 6	P=0.079
COCH-ARM / FISHERS	P=0.005**
MAX-ISO-POLY-3	P=0.006**

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney  
Pigmentation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.176
POLY 1.5	P=0.150
POLY 6	P=0.207
COCH-ARM / FISHERS	P=0.116
MAX-ISO-POLY-3	P=0.112

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney: Pelvis  
Dilatation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.143
POLY 1.5	P=0.129
POLY 6	P=0.161
COCH-ARM / FISHERS	P=0.111
MAX-ISO-POLY-3	P=0.061

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Kidney: Pelvis  
Inflammation

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LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.267
POLY 1.5	P=0.250
POLY 6	P=0.287
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	P=0.106

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Basophilic Focus

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LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.089N
POLY 1.5	P=0.108N
POLY 6	P=0.080N
COCH-ARM / FISHERS	P=0.158N
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Cholangiofibrosis

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.002**
POLY 1.5	P<0.001**
POLY 6	P=0.004**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Liver  
Clear Cell Focus

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.319N
POLY 1.5	P=0.375N
POLY 6	P=0.273N
COCH-ARM / FISHERS	P=0.485N
MAX-ISO-POLY-3	P=0.248N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Liver  
Degeneration Cystic

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.217
POLY 1.5	P=0.195
POLY 6	P=0.241
COCH-ARM / FISHERS	P=0.163
MAX-ISO-POLY-3	P=0.122

---



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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Eosinophilic Focus

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.002**
POLY 1.5	P<0.001**
POLY 6	P=0.004**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Fatty Change Diffuse

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.032*
POLY 1.5	P=0.023*
POLY 6	P=0.043*
COCH-ARM / FISHERS	P=0.012*
MAX-ISO-POLY-3	P=0.022*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Liver  
Fatty Change Focal

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.043*
POLY 1.5	P=0.032*
POLY 6	P=0.059
COCH-ARM / FISHERS	P=0.020*
MAX-ISO-POLY-3	P=0.029*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Hematopoietic Cell Proliferation

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LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.011*
POLY 1.5	P=0.009**
POLY 6	P=0.013*
COCH-ARM / FISHERS	P=0.006**
MAX-ISO-POLY-3	P=0.008**

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Liver  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.078
POLY 1.5	P=0.068
POLY 6	P=0.092
COCH-ARM / FISHERS	P=0.052
MAX-ISO-POLY-3	P=0.036*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

Females

DOSE                      0 UG/KG                      4600 UG/KG  
STOP

Liver  
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Mixed Cell Focus

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.007**
POLY 1.5	P=0.002**
POLY 6	P=0.030*
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P=0.007**

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

Females

DOSE                      0 UG/KG                      4600 UG/KG  
STOP

Liver  
Necrosis

LESION RATES

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

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P=0.002**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Pigmentation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver  
Toxic Hepatopathy

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver: Bile Duct  
Cyst

---

LESION RATES

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

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STATISTICAL TESTS

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

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver: Bile Duct  
Fibrosis

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.109
POLY 1.5	P=0.090
POLY 6	P=0.132
COCH-ARM / FISHERS	P=0.067
MAX-ISO-POLY-3	P=0.069

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Liver: Bile Duct  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Liver: Centrilobular  
Degeneration

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.540
POLY 1.5	P=0.517
POLY 6	P=0.564
COCH-ARM / FISHERS	P=0.478
MAX-ISO-POLY-3	P=0.324

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Liver: Hepatocyte  
Hypertrophy

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LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

Females

DOSE                      0 UG/KG                      4600 UG/KG  
STOP

Liver: Oval Cell  
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Lung  
Inflammation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.167N
POLY 1.5	P=0.191N
POLY 6	P=0.143N
COCH-ARM / FISHERS	P=0.226N
MAX-ISO-POLY-3	P=0.099N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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---

Lung: Alveolar Epithelium  
Hyperplasia

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.434N
POLY 1.5	P=0.467N
POLY 6	P=0.398N
COCH-ARM / FISHERS	P=0.511N
MAX-ISO-POLY-3	P=0.297N

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Lung: Alveolar Epithelium  
Metaplasia Bronchiolar

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Lung: Alveolus  
Infiltration Cellular Histiocyte

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LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.237
POLY 1.5	P=0.185
POLY 6	P=0.325
COCH-ARM / FISHERS	P=0.194
MAX-ISO-POLY-3	P=0.154

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Lymph Node, Mandibular  
Hyperplasia

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.352N
POLY 1.5	P=0.395N
POLY 6	P=0.325N
COCH-ARM / FISHERS	P=0.457N
MAX-ISO-POLY-3	P=0.272N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Lymph Node, Mesenteric  
Hemorrhage

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.269
POLY 1.5	P=0.251
POLY 6	P=0.290
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Mammary Gland  
Cyst

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.133
POLY 1.5	P=0.115
POLY 6	P=0.156
COCH-ARM / FISHERS	P=0.094
MAX-ISO-POLY-3	P=0.074

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Mammary Gland  
Hyperplasia

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.581N
POLY 1.5	P=0.616N
POLY 6	P=0.547N
COCH-ARM / FISHERS	P=0.620
MAX-ISO-POLY-3	P=0.435N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Mammary Gland  
Inflammation Granulomatous

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.077
POLY 1.5	P=0.067
POLY 6	P=0.089
COCH-ARM / FISHERS	P=0.054
MAX-ISO-POLY-3	P=0.034*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Mesentery: Artery  
Inflammation Chronic

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.606N
POLY 1.5	P=0.604N
POLY 6	P=0.654N
COCH-ARM / FISHERS	P=0.727
MAX-ISO-POLY-3	P=0.328N

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Nose  
Inflammation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.027*
POLY 1.5	P=0.020*
POLY 6	P=0.037*
COCH-ARM / FISHERS	P=0.013*
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Nose: Respiratory Epithelium  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.218
POLY 1.5	P=0.192
POLY 6	P=0.251
COCH-ARM / FISHERS	P=0.173
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Ovary  
Cyst

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.480
POLY 1.5	P=0.427
POLY 6	P=0.538
COCH-ARM / FISHERS	P=0.345
MAX-ISO-POLY-3	P=0.379

---

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

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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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Pancreas  
Inflammation Chronic

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.080
POLY 1.5	P=0.068
POLY 6	P=0.095
COCH-ARM / FISHERS	P=0.052
MAX-ISO-POLY-3	P=0.038*

---

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

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Pancreas: Acinus  
Atrophy Focal

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.574N
POLY 1.5	P=0.614N
POLY 6	P=0.529N
COCH-ARM / FISHERS	P=0.608
MAX-ISO-POLY-3	P=0.429N

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TDMS No. 20304 - 01  
Test Type: CHRONIC  
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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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Pancreas: Acinus  
Vacuolization Cytoplasmic

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.002**
POLY 1.5	P<0.001**
POLY 6	P=0.003**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

**Females**

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<b>DOSE</b>	<b>0 UG/KG</b>	<b>4600 UG/KG STOP</b>
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**Pancreas: Artery  
Inflammation Chronic**

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**LESION RATES**

<b>OVERALL (a)</b>	1/52 (2%)	5/49 (10%)
<b>POLY-3 RATE (b)</b>	1/35.12	5/40.16
<b>POLY-3 PERCENT (g)</b>	2.9%	12.5%
<b>TERMINAL (d)</b>	1/21 (5%)	2/25 (8%)
<b>FIRST INCIDENCE</b>	733 (T)	672

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**STATISTICAL TESTS**

<b>POLY 3</b>	P=0.134
<b>POLY 1.5</b>	P=0.114
<b>POLY 6</b>	P=0.158
<b>COCH-ARM / FISHERS</b>	P=0.089
<b>MAX-ISO-POLY-3</b>	P=0.076

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Pituitary Gland: Pars Distalis  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.481N
POLY 1.5	P=0.548N
POLY 6	P=0.407N
COCH-ARM / FISHERS	P=0.560
MAX-ISO-POLY-3	P=0.383N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Spleen  
Hematopoietic Cell Proliferation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.403
POLY 1.5	P=0.337
POLY 6	P=0.472
COCH-ARM / FISHERS	P=0.246
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Spleen  
Pigmentation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.064N
POLY 1.5	P=0.080N
POLY 6	P=0.053N
COCH-ARM / FISHERS	P=0.144N
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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---

Spleen: Lymphoid Follicle  
Atrophy

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.272N
POLY 1.5	P=0.291N
POLY 6	P=0.254N
COCH-ARM / FISHERS	P=0.332N
MAX-ISO-POLY-3	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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Stomach, Forestomach  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.045*
POLY 1.5	P=0.036*
POLY 6	P=0.057
COCH-ARM / FISHERS	P=0.024*
MAX-ISO-POLY-3	P=0.023*

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Stomach, Forestomach  
Inflammation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.399
POLY 1.5	P=0.364
POLY 6	P=0.436
COCH-ARM / FISHERS	P=0.311
MAX-ISO-POLY-3	P=0.264

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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

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Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Stomach, Forestomach  
Ulcer

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.554
POLY 1.5	P=0.524
POLY 6	P=0.584
COCH-ARM / FISHERS	P=0.472
MAX-ISO-POLY-3	P=0.379

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Stomach, Glandular  
Erosion

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.273
POLY 1.5	P=0.254
POLY 6	P=0.293
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	P=0.111

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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: 06/26/2008  
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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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Thymus  
Atrophy

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.105
POLY 1.5	P=0.070
POLY 6	P=0.172
COCH-ARM / FISHERS	P=0.080
MAX-ISO-POLY-3	P=0.052

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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)  
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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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Thyroid Gland: C-Cell  
Hyperplasia

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.362N
POLY 1.5	P=0.430N
POLY 6	P=0.291N
COCH-ARM / FISHERS	P=0.519N
MAX-ISO-POLY-3	P=0.282N

---

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

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Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Thyroid Gland: Follicular Cell  
Hypertrophy

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.165
POLY 1.5	P=0.129
POLY 6	P=0.210
COCH-ARM / FISHERS	P=0.089
MAX-ISO-POLY-3	P=0.123

---

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

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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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

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Tooth: Peridental Tissue  
Inflammation

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	P=0.538
POLY 1.5	P=0.404
POLY 6	P=0.667
COCH-ARM / FISHERS	P=0.176
MAX-ISO-POLY-3	P=0.144

---

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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Ureter  
Cyst

---

LESION RATES

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

---

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
------	---------	--------------------

---

Uterus  
Hemorrhage

---

LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.269
POLY 1.5	P=0.251
POLY 6	P=0.290
COCH-ARM / FISHERS	P=0.233
MAX-ISO-POLY-3	P=0.108

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

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Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Uterus  
Inflammation

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.111
POLY 1.5	P=0.086
POLY 6	P=0.145
COCH-ARM / FISHERS	P=0.059
MAX-ISO-POLY-3	P=0.078

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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

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Lab: BAT

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

---

Females

---

DOSE	0 UG/KG	4600 UG/KG STOP
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Uterus  
Metaplasia

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.228N
POLY 1.5	P=0.226N
POLY 6	P=0.242N
COCH-ARM / FISHERS	P=0.246N
MAX-ISO-POLY-3	P=0.170N

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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: 06/26/2008  
Time Report Requested: 12:21:48  
First Dose M/F: NA / 03/26/04  
Lab: BAT

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

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Females

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DOSE	0 UG/KG	4600 UG/KG STOP
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Uterus: Endometrium  
Hyperplasia Cystic

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LESION RATES

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

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STATISTICAL TESTS

POLY 3	P=0.051N
POLY 1.5	P=0.087N
POLY 6	P=0.029N*
COCH-ARM / FISHERS	P=0.183N
MAX-ISO-POLY-3	P=0.035N*

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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:** 06/26/2008  
**Time Report Requested:** 12:21:48  
**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 \*\*\*