

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: 07/08/2008
Time Report Requested: 12:16:00
First Dose M/F: NA / 03/26/04
Lab: BAT

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

FEMALE RATS

Organ

Adrenal Cortex

Adrenal Medulla
Clitoral Gland
Eye: Retina
Intestine Large, Rectum: Artery
Kidney
Kidney: Pelvis
Kidney: Transitional Epithelium
Liver

Liver: Bile Duct

Liver: Hepatocyte

Liver: Oval Cell
Lung
Lung: Alveolar Epithelium

Mammary Gland

Morphology

Atrophy
Hyperplasia
Necrosis
Hyperplasia
Inflammation
Atrophy
Inflammation Chronic
Pigmentation
Dilatation
Hyperplasia
Basophilic Focus
Cholangiofibrosis
Clear Cell Focus
Eosinophilic Focus
Fatty Change Diffuse
Fatty Change Focal
Hematopoietic Cell Proliferation
Hyperplasia
Mixed Cell Focus
Necrosis
Pigmentation
Toxic Hepatopathy
Fibrosis
Hyperplasia
Hypertrophy
Multinucleated
Hyperplasia
Metaplasia
Hyperplasia
Metaplasia Bronchiolar
Cyst

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Mesentery: Artery	Inflammation Granulomatous
Nose	Inflammation Chronic
Nose: Respiratory Epithelium	Inflammation
Pancreas: Acinus	Hyperplasia
Pancreas: Artery	Vacuolization Cytoplasmic
Pancreas: Duct	Inflammation Chronic
Spleen	Dilatation
Spleen: Red Pulp	Hematopoietic Cell Proliferation
Stomach, Forestomach	Atrophy
Thymus	Ulcer
Thyroid Gland: Follicular Cell	Hemorrhage
Uterus	Hypertrophy
Uterus: Endometrium	Metaplasia
	Hyperplasia Cystic

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

Females

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

LESION RATES

OVERALL (a)	35/49 (71%)	4/49 (8%)
POLY-3 RATE (b)	35/41.86	4/39.81
POLY-3 PERCENT (g)	83.6%	10.1%
TERMINAL (d)	24/25 (96%)	3/25 (12%)
FIRST INCIDENCE	433	713

STATISTICAL TESTS

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

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Females

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Adrenal Cortex
Degeneration Cystic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.207
POLY 1.5	P=0.229
POLY 6	P=0.178
COCH-ARM / FISHERS	P=0.226
MAX-ISO-POLY-3	P=0.142

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Females

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Adrenal Cortex
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.062
POLY 1.5	P=0.071
POLY 6	P=0.051
COCH-ARM / FISHERS	P=0.068
MAX-ISO-POLY-3	P=0.039*

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Adrenal Cortex
Hypertrophy

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.209
POLY 1.5	P=0.250
POLY 6	P=0.194
COCH-ARM / FISHERS	P=0.246
MAX-ISO-POLY-3	P=0.134

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TERMINAL SACRIFICE AT 105 WEEKS

Females

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

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.067
POLY 1.5	P=0.066
POLY 6	P=0.068
COCH-ARM / FISHERS	P=0.059
MAX-ISO-POLY-3	P=0.025*

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**Adrenal Cortex
Vacuolization Cytoplasmic**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.421
POLY 1.5	P=0.410
POLY 6	P=0.434
COCH-ARM / FISHERS	P=0.340
MAX-ISO-POLY-3	P=0.339

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Adrenal Medulla
Hyperplasia

LESION RATES

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

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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Bone Marrow
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.140N
POLY 1.5	P=0.152N
POLY 6	P=0.127N
COCH-ARM / FISHERS	P=0.352N
MAX-ISO-POLY-3	P=0.079N

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TERMINAL SACRIFICE AT 105 WEEKS

Females

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

LESION RATES

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

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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Clitoral Gland: Duct
Cyst

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.320N
POLY 1.5	P=0.345N
POLY 6	P=0.290N
COCH-ARM / FISHERS	P=0.467N
MAX-ISO-POLY-3	P=0.250N

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Females

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Eye: Retina
Atrophy

LESION RATES

OVERALL (a)	6/52 (12%)	0/50 (0%)
POLY-3 RATE (b)	6/40.54	0/39.74
POLY-3 PERCENT (g)	14.8%	0%
TERMINAL (d)	3/25 (12%)	0/25 (0%)
FIRST INCIDENCE	672	---

STATISTICAL TESTS

POLY 3	P=0.016N*
POLY 1.5	P=0.015N*
POLY 6	P=0.017N*
COCH-ARM / FISHERS	P=0.015N*
MAX-ISO-POLY-3	P=0.005N**

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Harderian Gland
Infiltration Cellular Mononuclear Cell

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.384N
POLY 1.5	P=0.385N
POLY 6	P=0.383N
COCH-ARM / FISHERS	P=0.451N
MAX-ISO-POLY-3	P=0.297N

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Females

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

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.303
POLY 1.5	P=0.339
POLY 6	P=0.264
COCH-ARM / FISHERS	P=0.338
MAX-ISO-POLY-3	P=0.231

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Heart: Endocardium
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.234N
POLY 1.5	P=0.231N
POLY 6	P=0.237N
COCH-ARM / FISHERS	P=0.247N
MAX-ISO-POLY-3	P=0.075N

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Females

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**Intestine Large, Cecum: Artery
Inflammation Chronic**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.513
POLY 1.5	P=0.517
POLY 6	P=0.508
COCH-ARM / FISHERS	P=0.508
MAX-ISO-POLY-3	P=0.292

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Females

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**Intestine Large, Colon: Artery
Inflammation Chronic**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.512
POLY 1.5	P=0.516
POLY 6	P=0.507
COCH-ARM / FISHERS	P=0.508
MAX-ISO-POLY-3	P=0.292

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Intestine Large, Rectum
Parasite Metazoan

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.502N
POLY 1.5	P=0.498N
POLY 6	P=0.507N
COCH-ARM / FISHERS	P=0.510N
MAX-ISO-POLY-3	P=0.323N

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Females

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

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.103
POLY 1.5	P=0.104
POLY 6	P=0.102
COCH-ARM / FISHERS	P=0.098
MAX-ISO-POLY-3	P=0.047*

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Kidney
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/39.93	2/40.09
POLY-3 PERCENT (g)	0%	5%
TERMINAL (d)	0/25 (0%)	0/25 (0%)
FIRST INCIDENCE	---	657

STATISTICAL TESTS

POLY 3	P=0.238
POLY 1.5	P=0.239
POLY 6	P=0.236
COCH-ARM / FISHERS	P=0.242
MAX-ISO-POLY-3	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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Kidney
Mineralization

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.393
POLY 1.5	P=0.378
POLY 6	P=0.427
COCH-ARM / FISHERS	P=0.305
MAX-ISO-POLY-3	P=0.314

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Kidney
Nephropathy

LESION RATES

OVERALL (a)	46/50 (92%)	48/49 (98%)
POLY-3 RATE (b)	46/46.96	48/48.07
POLY-3 PERCENT (g)	98%	99.9%
TERMINAL (d)	25/25 (100%)	25/25 (100%)
FIRST INCIDENCE	158	207

STATISTICAL TESTS

POLY 3	P=0.552
POLY 1.5	P=0.440
POLY 6	P=0.842
COCH-ARM / FISHERS	P=0.187
MAX-ISO-POLY-3	P=0.113

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Kidney
Pigmentation

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Kidney: Pelvis
Dilatation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.118
POLY 1.5	P=0.120
POLY 6	P=0.117
COCH-ARM / FISHERS	P=0.117
MAX-ISO-POLY-3	P=0.039*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Kidney: Pelvis
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.694
POLY 1.5	P=0.692N
POLY 6	P=0.691
COCH-ARM / FISHERS	P=0.684
MAX-ISO-POLY-3	P=0.498

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Kidney: Transitional Epithelium
Hyperplasia**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.119N
POLY 1.5	P=0.118N
POLY 6	P=0.122N
COCH-ARM / FISHERS	P=0.125N
MAX-ISO-POLY-3	P=0.038N*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Angiectasis

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.496N
POLY 1.5	P=0.492N
POLY 6	P=0.502N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.277N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Basophilic Focus

LESION RATES

OVERALL (a)	1/49 (2%)	9/49 (18%)
POLY-3 RATE (b)	1/39.26	9/39.88
POLY-3 PERCENT (g)	2.6%	22.6%
TERMINAL (d)	1/25 (4%)	8/25 (32%)
FIRST INCIDENCE	733 (T)	694

STATISTICAL TESTS

POLY 3	P=0.008**
POLY 1.5	P=0.008**
POLY 6	P=0.007**
COCH-ARM / FISHERS	P=0.008**
MAX-ISO-POLY-3	P=0.003**

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Cholangiofibrosis

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.005N**
POLY 1.5	P=0.005N**
POLY 6	P=0.006N**
COCH-ARM / FISHERS	P=0.009N**
MAX-ISO-POLY-3	P=0.002N**

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	0/49 (0%)	13/49 (27%)
POLY-3 RATE (b)	0/39.26	13/41.25
POLY-3 PERCENT (g)	0%	31.5%
TERMINAL (d)	0/25 (0%)	9/25 (36%)
FIRST INCIDENCE	---	433

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Degeneration Cystic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.342
POLY 1.5	P=0.348
POLY 6	P=0.332
COCH-ARM / FISHERS	P=0.339
MAX-ISO-POLY-3	P=0.204

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Fatty Change Diffuse

LESION RATES

OVERALL (a)	48/49 (98%)	8/49 (16%)
POLY-3 RATE (b)	48/48.86	8/42.66
POLY-3 PERCENT (g)	98.2%	18.8%
TERMINAL (d)	25/25 (100%)	4/25 (16%)
FIRST INCIDENCE	54	207

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Hematopoietic Cell Proliferation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.051
POLY 1.5	P=0.047*
POLY 6	P=0.060
COCH-ARM / FISHERS	P=0.034*
MAX-ISO-POLY-3	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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Liver
Hyperplasia**

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.179
POLY 1.5	P=0.191
POLY 6	P=0.180
COCH-ARM / FISHERS	P=0.218
MAX-ISO-POLY-3	P=0.086

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Mixed Cell Focus

LESION RATES

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Necrosis

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.072N
POLY 1.5	P=0.071N
POLY 6	P=0.072N
COCH-ARM / FISHERS	P=0.071N
MAX-ISO-POLY-3	P=0.048N*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver
Pigmentation

LESION RATES

OVERALL (a)	48/49 (98%)	43/49 (88%)
POLY-3 RATE (b)	48/48.00	43/46.66
POLY-3 PERCENT (g)	100%	92.2%
TERMINAL (d)	25/25 (100%)	23/25 (92%)
FIRST INCIDENCE	54	302

STATISTICAL TESTS

POLY 3	P=0.052N
POLY 1.5	P=0.035N*
POLY 6	P=0.090N
COCH-ARM / FISHERS	P=0.056N
MAX-ISO-POLY-3	P=0.014N*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Liver: Bile Duct
Cyst**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.093N
POLY 1.5	P=0.085N
POLY 6	P=0.106N
COCH-ARM / FISHERS	P=0.103N
MAX-ISO-POLY-3	P=0.061N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver: Bile Duct
Fibrosis

LESION RATES

OVERALL (a)	0/49 (0%)	7/49 (14%)
POLY-3 RATE (b)	0/39.26	7/39.81
POLY-3 PERCENT (g)	0%	17.6%
TERMINAL (d)	0/25 (0%)	6/25 (24%)
FIRST INCIDENCE	---	713

STATISTICAL TESTS

POLY 3	P=0.007**
POLY 1.5	P=0.008**
POLY 6	P=0.007**
COCH-ARM / FISHERS	P=0.006**
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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	40/49 (82%)	25/49 (51%)
POLY-3 RATE (b)	40/43.82	25/42.15
POLY-3 PERCENT (g)	91.3%	59.3%
TERMINAL (d)	24/25 (96%)	16/25 (64%)
FIRST INCIDENCE	459	545

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver: Hepatocyte
Hypertrophy

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver: Hepatocyte
Multinucleated

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.007N**
POLY 1.5	P=0.006N**
POLY 6	P=0.009N**
COCH-ARM / FISHERS	P=0.008N**
MAX-ISO-POLY-3	P=0.003N**

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Liver: Oval Cell
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Lung
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.689N
POLY 1.5	P=0.685N
POLY 6	P=0.695N
COCH-ARM / FISHERS	P=0.691N
MAX-ISO-POLY-3	P=0.493N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Lung: Alveolar Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/39.26	3/39.74
POLY-3 PERCENT (g)	0%	7.6%
TERMINAL (d)	0/25 (0%)	3/25 (12%)
FIRST INCIDENCE	---	733 (T)

STATISTICAL TESTS

POLY 3	P=0.120
POLY 1.5	P=0.123
POLY 6	P=0.116
COCH-ARM / FISHERS	P=0.121
MAX-ISO-POLY-3	P=0.039*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	40/50 (80%)	40/50 (80%)
POLY-3 RATE (b)	40/44.32	40/45.42
POLY-3 PERCENT (g)	90.3%	88.1%
TERMINAL (d)	22/25 (88%)	22/25 (88%)
FIRST INCIDENCE	484	545

STATISTICAL TESTS

POLY 3	P=0.503N
POLY 1.5	P=0.469N
POLY 6	P=0.545N
COCH-ARM / FISHERS	P=0.598N
MAX-ISO-POLY-3	P=0.363N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Lymph Node, Mandibular
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.326
POLY 1.5	P=0.346
POLY 6	P=0.304
COCH-ARM / FISHERS	P=0.313
MAX-ISO-POLY-3	P=0.249

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Lymph Node, Mesenteric
Hemorrhage

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.252
POLY 1.5	P=0.254
POLY 6	P=0.250
COCH-ARM / FISHERS	P=0.258
MAX-ISO-POLY-3	P=0.087

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Mammary Gland
Cyst

LESION RATES

OVERALL (a)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	0/39.93	5/40.05
POLY-3 PERCENT (g)	0%	12.5%
TERMINAL (d)	0/25 (0%)	3/25 (12%)
FIRST INCIDENCE	---	672

STATISTICAL TESTS

POLY 3	P=0.030*
POLY 1.5	P=0.031*
POLY 6	P=0.029*
COCH-ARM / FISHERS	P=0.028*
MAX-ISO-POLY-3	P=0.010**

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Mammary Gland
Hyperplasia**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.176
POLY 1.5	P=0.180
POLY 6	P=0.171
COCH-ARM / FISHERS	P=0.181
MAX-ISO-POLY-3	P=0.081

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Mammary Gland
Inflammation Granulomatous

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.059
POLY 1.5	P=0.061
POLY 6	P=0.057
COCH-ARM / FISHERS	P=0.059
MAX-ISO-POLY-3	P=0.019*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Mesentery: Artery
Inflammation Chronic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.080N
POLY 1.5	P=0.096N
POLY 6	P=0.083N
COCH-ARM / FISHERS	P=0.147N
MAX-ISO-POLY-3	P=0.017N*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Nose
Inflammation

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Ovary
Cyst

LESION RATES

OVERALL (a)	7/48 (15%)	10/49 (20%)
POLY-3 RATE (b)	7/38.60	10/40.84
POLY-3 PERCENT (g)	18.1%	24.5%
TERMINAL (d)	5/25 (20%)	5/25 (20%)
FIRST INCIDENCE	677	582

STATISTICAL TESTS

POLY 3	P=0.338
POLY 1.5	P=0.341
POLY 6	P=0.335
COCH-ARM / FISHERS	P=0.314
MAX-ISO-POLY-3	P=0.249

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Ovary
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.487N
POLY 1.5	P=0.483N
POLY 6	P=0.493N
COCH-ARM / FISHERS	P=0.492N
MAX-ISO-POLY-3	P=0.271N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Pancreas
Inflammation Chronic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.359
POLY 1.5	P=0.366
POLY 6	P=0.349
COCH-ARM / FISHERS	P=0.359
MAX-ISO-POLY-3	P=0.219

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Pancreas: Acinus
Atrophy Focal

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.197
POLY 1.5	P=0.201
POLY 6	P=0.192
COCH-ARM / FISHERS	P=0.194
MAX-ISO-POLY-3	P=0.098

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Pancreas: Acinus
Vacuolization Cytoplasmic**

LESION RATES

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

STATISTICAL TESTS

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Pancreas: Artery
Inflammation Chronic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.038N*
POLY 1.5	P=0.036N*
POLY 6	P=0.043N*
COCH-ARM / FISHERS	P=0.044N*
MAX-ISO-POLY-3	P=0.021N*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Pancreas: Duct
Dilatation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.114N
POLY 1.5	P=0.110N
POLY 6	P=0.121N
COCH-ARM / FISHERS	P=0.113N
MAX-ISO-POLY-3	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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Pancreas: Duct
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.228N
POLY 1.5	P=0.224N
POLY 6	P=0.235N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.073N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 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)	10/40.49	10/40.59
POLY-3 PERCENT (g)	24.7%	24.6%
TERMINAL (d)	6/25 (24%)	7/25 (28%)
FIRST INCIDENCE	623	617

STATISTICAL TESTS

POLY 3	P=0.600N
POLY 1.5	P=0.591N
POLY 6	P=0.598
COCH-ARM / FISHERS	P=0.560
MAX-ISO-POLY-3	P=0.496N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Spleen
Hematopoietic Cell Proliferation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.142
POLY 1.5	P=0.118
POLY 6	P=0.179
COCH-ARM / FISHERS	P=0.050*
MAX-ISO-POLY-3	P=0.091

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Spleen
Pigmentation

LESION RATES

OVERALL (a)	28/47 (60%)	31/49 (63%)
POLY-3 RATE (b)	28/45.26	31/44.56
POLY-3 PERCENT (g)	61.9%	69.6%
TERMINAL (d)	12/25 (48%)	19/25 (76%)
FIRST INCIDENCE	54	207

STATISTICAL TESTS

POLY 3	P=0.288
POLY 1.5	P=0.345
POLY 6	P=0.222
COCH-ARM / FISHERS	P=0.436
MAX-ISO-POLY-3	P=0.219

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Spleen: Lymphoid Follicle
Atrophy

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.290N
POLY 1.5	P=0.284N
POLY 6	P=0.302N
COCH-ARM / FISHERS	P=0.293N
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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Spleen: Red Pulp
Atrophy

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.112N
POLY 1.5	P=0.108N
POLY 6	P=0.119N
COCH-ARM / FISHERS	P=0.113N
MAX-ISO-POLY-3	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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Stomach, Forestomach
Hyperplasia

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.358
POLY 1.5	P=0.361
POLY 6	P=0.355
COCH-ARM / FISHERS	P=0.335
MAX-ISO-POLY-3	P=0.233

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Stomach, Forestomach
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.183
POLY 1.5	P=0.183
POLY 6	P=0.183
COCH-ARM / FISHERS	P=0.169
MAX-ISO-POLY-3	P=0.089

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Stomach, Forestomach
Ulcer**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.119
POLY 1.5	P=0.120
POLY 6	P=0.118
COCH-ARM / FISHERS	P=0.114
MAX-ISO-POLY-3	P=0.040*

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Stomach, Glandular
Erosion

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.242
POLY 1.5	P=0.242
POLY 6	P=0.241
COCH-ARM / FISHERS	P=0.238
MAX-ISO-POLY-3	P=0.082

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Thymus
Atrophy

LESION RATES

OVERALL (a)	44/49 (90%)	46/50 (92%)
POLY-3 RATE (b)	44/44.79	46/48.03
POLY-3 PERCENT (g)	98.2%	95.8%
TERMINAL (d)	24/24 (100%)	23/25 (92%)
FIRST INCIDENCE	433	302

STATISTICAL TESTS

POLY 3	P=0.463N
POLY 1.5	P=0.481N
POLY 6	P=0.421N
COCH-ARM / FISHERS	P=0.487
MAX-ISO-POLY-3	P=0.243N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Thymus
Hemorrhage

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.125N
POLY 1.5	P=0.122N
POLY 6	P=0.128N
COCH-ARM / FISHERS	P=0.117N
MAX-ISO-POLY-3	P=0.044N*

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: 07/08/2008
 Time Report Requested: 12:16:00
 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	4600 UG/KG	4600 UG/KG STOP
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**Thymus: Artery
 Inflammation Chronic**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.231N
POLY 1.5	P=0.228N
POLY 6	P=0.236N
COCH-ARM / FISHERS	P=0.242N
MAX-ISO-POLY-3	P=0.074N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	11/49 (22%)	9/50 (18%)
POLY-3 RATE (b)	11/40.25	9/41.40
POLY-3 PERCENT (g)	27.3%	21.7%
TERMINAL (d)	9/25 (36%)	4/25 (16%)
FIRST INCIDENCE	433	433

STATISTICAL TESTS

POLY 3	P=0.370N
POLY 1.5	P=0.366N
POLY 6	P=0.373N
COCH-ARM / FISHERS	P=0.382N
MAX-ISO-POLY-3	P=0.279N

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.010N**
POLY 1.5	P=0.012N*
POLY 6	P=0.009N**
COCH-ARM / FISHERS	P=0.014N*
MAX-ISO-POLY-3	P=0.005N**

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Tooth: Peridental Tissue
Inflammation

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Uterus
Hemorrhage

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.510
POLY 1.5	P=0.511
POLY 6	P=0.509
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.290

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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**Uterus
Inflammation**

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.087
POLY 1.5	P=0.085
POLY 6	P=0.092
COCH-ARM / FISHERS	P=0.074
MAX-ISO-POLY-3	P=0.054

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Uterus
Metaplasia

LESION RATES

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

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: 07/08/2008
Time Report Requested: 12:16:00
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	4600 UG/KG	4600 UG/KG STOP
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Uterus: Endometrium
Hyperplasia Cystic

LESION RATES

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

STATISTICAL TESTS

POLY 3	P=0.009**
POLY 1.5	P=0.009**
POLY 6	P=0.009**
COCH-ARM / FISHERS	P=0.008**
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: 07/08/2008
Time Report Requested: 12:16:00
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 ***