

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 ($P \leq .05$) 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**

Females

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

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

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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Adrenal Cortex
Degeneration Cystic

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

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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Females

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

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

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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Adrenal Cortex
Hypertrophy

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

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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TERMINAL SACRIFICE AT 105 WEEKS

Females

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

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

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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
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Females

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

DOSE 0 UG/KG 4600 UG/KG
STOP

Adrenal Medulla
Hyperplasia

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

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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Females

DOSE 0 UG/KG 4600 UG/KG
STOP

Bone Marrow
Atrophy

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	---

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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Females

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

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

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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Brain
Hemorrhage

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

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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Females

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

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	---

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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Females

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

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

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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Females

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

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

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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Harderian Gland
Infiltration Cellular Mononuclear Cell

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

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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Heart
Cardiomyopathy

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

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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Intestine Large, Cecum: Artery
Inflammation Chronic

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

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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Intestine Large, Colon: Artery
Inflammation Chronic

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

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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Intestine Large, Rectum
Parasite Metazoan

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

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

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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

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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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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

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

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	---

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*

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

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

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

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

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

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: 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

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: Pelvis
Inflammation

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

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
Basophilic Focus

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

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
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*

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*

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
Hematopoietic Cell Proliferation

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**

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
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*

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

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

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**

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

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

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

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

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: 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

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

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

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

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: Hepatocyte
Hypertrophy

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**

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: Hepatocyte
 Multinucleated**

LESION RATES

OVERALL (a)	0/52 (0%)	32/49 (65%)
POLY-3 RATE (b)	0/35.12	32/45.74
POLY-3 PERCENT (g)	0%	70%
TERMINAL (d)	0/21 (0%)	18/25 (72%)
FIRST INCIDENCE	---	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

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

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
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)

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**

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

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

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

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

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

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

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
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)

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

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

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*

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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**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

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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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
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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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

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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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

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

LESION RATES

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

STATISTICAL TESTS

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

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
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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
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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*

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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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

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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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
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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

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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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

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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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

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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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

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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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
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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: 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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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

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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Uterus
Inflammation

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

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

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

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

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

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

Females

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

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

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

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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Uterus: Endometrium
Hyperplasia Cystic

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

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*

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

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 ***