

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: 06/24/2008

Time Report Requested: 13:39:56

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

Lab: BAT

31 Wk_SSAC_R8

C Number: C20304

Lock Date: 10/12/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: 27-Oct-2004 - 27-Oct-2004

Treatment Groups: Include 001 0 UG/KG

Include 002 10 UG/KG

Include 003 30 UG/KG

Include 004 100 UG/KG

Include 005 220 UG/KG

Include 006 460 UG/KG

Include 007 1000 UG/KG

Include 008 4600 UG/KG

Study Gender: Female

TDMSE Version: 2.0.0

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

FEMALE RATS

Organ

Liver

Liver: Bile Duct
Liver: Hepatocyte

Liver: Oval Cell

Lung

Lung: Alveolus

Pancreas: Acinus

Thymus

Thyroid Gland: Follicular Cell

Uterus

Morphology

Fatty Change Diffuse
Pigmentation
Toxic Hepatopathy
Hyperplasia
Hypertrophy
Multinucleated
Hyperplasia
Hemorrhage
Infiltration Cellular Histiocyte
Vacuolization Cytoplasmic
Atrophy
Hypertrophy
Dilatation
Metaplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Adrenal Cortex
 Hypertrophy**

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	1/10.00	1/10.00	3/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	10%	10%	30%	0%
INT SACRIFICE 1	2/10 (20%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	---	216 (I)	216 (I)	216 (I)	---

STATISTICAL TESTS

POLY 3	P=0.370	P=0.227N	P=0.500N	P=0.500N	P=0.500	P=0.227N
POLY 1.5	P=0.370	P=0.227N	P=0.500N	P=0.500N	P=0.500	P=0.227N
POLY 6	P=0.370	P=0.227N	P=0.500N	P=0.500N	P=0.500	P=0.227N
COCH-ARM / FISHERS	P=0.370	P=0.237N	P=0.500N	P=0.500N	P=0.500	P=0.237N
MAX-ISO-POLY-3	P=0.344	P=0.068N	P=0.274N	P=0.274N	P=0.310	P=0.068N

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Adrenal Cortex
Hypertrophy

LESION RATES

OVERALL (a)	3/10 (30%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	2/10.00
POLY-3 PERCENT (g)	30%	20%
INT SACRIFICE 1	3/10 (30%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.500	P=0.702
POLY 1.5	P=0.500	P=0.702
POLY 6	P=0.500	P=0.702
COCH-ARM / FISHERS	P=0.500	P=0.709N
MAX-ISO-POLY-3	P=0.310	P=1.000

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DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	2/10 (20%)	3/10 (30%)	4/10 (40%)	0/10 (0%)	2/10 (20%)	2/10 (20%)
POLY-3 RATE (b)	2/10.00	3/10.00	4/10.00	0/10.00	2/10.00	2/10.00
POLY-3 PERCENT (g)	20%	30%	40%	0%	20%	20%
INT SACRIFICE 1	2/10 (20%)	3/10 (30%)	4/10 (40%)	0/10 (0%)	2/10 (20%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)	216 (I)	---	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.106N	P=0.500	P=0.318	P=0.227N	P=0.702	P=0.702
POLY 1.5	P=0.106N	P=0.500	P=0.318	P=0.227N	P=0.702	P=0.702
POLY 6	P=0.106N	P=0.500	P=0.318	P=0.227N	P=0.702	P=0.702
COCH-ARM / FISHERS	P=0.107N	P=0.500	P=0.314	P=0.237N	P=0.709N	P=0.709N
MAX-ISO-POLY-3	P=0.088N	P=0.310	P=0.171	P=0.068N	P=1.000	P=1.000

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LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/10.00
POLY-3 PERCENT (g)	30%	0%
INT SACRIFICE 1	3/10 (30%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (l)	---

STATISTICAL TESTS

POLY 3	P=0.500	P=0.227N
POLY 1.5	P=0.500	P=0.227N
POLY 6	P=0.500	P=0.227N
COCH-ARM / FISHERS	P=0.500	P=0.237N
MAX-ISO-POLY-3	P=0.310	P=0.068N

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 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Liver
 Fatty Change Diffuse

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver
Fatty Change Diffuse

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

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

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 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00	9/10.00
POLY-3 PERCENT (g)	100%	100%	100%	100%	100%	90%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)	216 (I)	216 (I)	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.839	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	P=0.839	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	P=0.839	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.841	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	P=0.495N	(e)	(e)	(e)	(e)	P=0.158N

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LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver
Inflammation

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

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

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DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Liver
 Pigmentation**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	216 (I)

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.158

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE 1000 UG/KG 4600 UG/KG

Liver
Pigmentation

LESION RATES

OVERALL (a)	6/10 (60%)	10/10 (100%)
POLY-3 RATE (b)	6/10.00	10/10.00
POLY-3 PERCENT (g)	60%	100%
INT SACRIFICE 1	6/10 (60%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.005**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**

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 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Liver
 Toxic Hepatopathy**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

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LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver
Toxic Hepatopathy

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

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

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 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

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LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
------	------------	------------

Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	20%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	2/6 (l)

STATISTICAL TESTS

POLY 3	(e)	P=0.227
POLY 1.5	(e)	P=0.227
POLY 6	(e)	P=0.227
COCH-ARM / FISHERS	(e)	P=0.237
MAX-ISO-POLY-3	(e)	P=0.068

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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
Liver: Hepatocyte Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	3/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	30%	80%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	8/10 (80%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	216 (I)	216 (I)	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	P=0.500	P=0.500	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.500	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P=0.500	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.158	P=0.025*	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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

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

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

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

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Liver: Hepatocyte
 Multinucleated

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE 1000 UG/KG 4600 UG/KG

Liver: Hepatocyte
Multinucleated

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/10 (0%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

POLY 3	(e)	P<0.001**
POLY 1.5	(e)	P<0.001**
POLY 6	(e)	P<0.001**
COCH-ARM / FISHERS	(e)	P<0.001**
MAX-ISO-POLY-3	(e)	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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Liver: Oval Cell
 Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Liver: Oval Cell
Hyperplasia

LESION RATES

OVERALL (a)	1/10 (10%)	9/10 (90%)
POLY-3 RATE (b)	1/10.00	9/10.00
POLY-3 PERCENT (g)	10%	90%
INT SACRIFICE 1	1/10 (10%)	9/10 (90%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.500	P<0.001**
POLY 1.5	P=0.500	P<0.001**
POLY 6	P=0.500	P<0.001**
COCH-ARM / FISHERS	P=0.500	P<0.001**
MAX-ISO-POLY-3	P=0.158	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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Lung
 Hemorrhage**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.002**	(e)	(e)	(e)	(e)	(e)
POLY 1.5	P=0.002**	(e)	(e)	(e)	(e)	(e)
POLY 6	P=0.002**	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.002**	(e)	(e)	(e)	(e)	(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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Lung
Hemorrhage

LESION RATES

OVERALL (a)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	20%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

POLY 3	(e)	P=0.227
POLY 1.5	(e)	P=0.227
POLY 6	(e)	P=0.227
COCH-ARM / FISHERS	(e)	P=0.237
MAX-ISO-POLY-3	(e)	P=0.068

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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
Lung Inflammation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	0/10.00	1/10.00	2/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	10%	0%	10%	20%	0%	20%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	---	216 (I)	216 (I)	---	216 (I)

STATISTICAL TESTS

POLY 3	P=0.295N	P=0.500N	P=0.760	P=0.500	P=0.500N	P=0.500
POLY 1.5	P=0.295N	P=0.500N	P=0.760	P=0.500	P=0.500N	P=0.500
POLY 6	P=0.295N	P=0.500N	P=0.760	P=0.500	P=0.500N	P=0.500
COCH-ARM / FISHERS	P=0.295N	P=0.500N	P=0.763N	P=0.500	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.391N	P=0.158N	P=1.000	P=0.274	P=0.158N	P=0.274

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Lung
Inflammation

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

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

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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Lung: Alveolus
 Infiltration Cellular Histiocyte**

LESION RATES

OVERALL (a)	4/10 (40%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	40%	10%	0%	0%	0%	0%
INT SACRIFICE 1	4/10 (40%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)	---	---	---	---

STATISTICAL TESTS

POLY 3	P=0.068	P=0.148N	P=0.033N*	P=0.033N*	P=0.033N*	P=0.033N*
POLY 1.5	P=0.068	P=0.148N	P=0.033N*	P=0.033N*	P=0.033N*	P=0.033N*
POLY 6	P=0.068	P=0.148N	P=0.033N*	P=0.033N*	P=0.033N*	P=0.033N*
COCH-ARM / FISHERS	P=0.082	P=0.152N	P=0.043N*	P=0.043N*	P=0.043N*	P=0.043N*
MAX-ISO-POLY-3	P=0.011N*	P=0.060N	P=0.007N**	P=0.007N**	P=0.007N**	P=0.007N**

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	1/10.00	3/10.00
POLY-3 PERCENT (g)	10%	30%
INT SACRIFICE 1	1/10 (10%)	3/10 (30%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.148N	P=0.500N
POLY 1.5	P=0.148N	P=0.500N
POLY 6	P=0.148N	P=0.500N
COCH-ARM / FISHERS	P=0.152N	P=0.500N
MAX-ISO-POLY-3	P=0.060N	P=0.327N

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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Pancreas: Acinus
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	(e)
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Pancreas: Acinus
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/10 (0%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	6/10.00
POLY-3 PERCENT (g)	0%	60%
INT SACRIFICE 1	0/10 (0%)	6/10 (60%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

POLY 3	(e)	P<0.001**
POLY 1.5	(e)	P<0.001**
POLY 6	(e)	P<0.001**
COCH-ARM / FISHERS	(e)	P=0.005**
MAX-ISO-POLY-3	(e)	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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Spleen
 Pigmentation**

LESION RATES

OVERALL (a)	10/10 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	10/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	100%	0%	0%	0%	0%	0%
INT SACRIFICE 1	10/10 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (l)	---	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Spleen
Pigmentation

LESION RATES

OVERALL (a)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/0.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/0 (0%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

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

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.182	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(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: 06/24/2008
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First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	20%
INT SACRIFICE 1	0/0 (0%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (l)

STATISTICAL TESTS

POLY 3	(e)	P=0.227
POLY 1.5	(e)	P=0.227
POLY 6	(e)	P=0.227
COCH-ARM / FISHERS	(e)	P=0.237
MAX-ISO-POLY-3	(e)	P=0.068

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: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
Thymus Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	1/10.00	3/10.00	2/10.00
POLY-3 PERCENT (g)	0%	10%	10%	10%	30%	20%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (I)	216 (I)	216 (I)	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.390	P=0.500	P=0.500	P=0.500	P=0.095	P=0.227
POLY 1.5	P=0.390	P=0.500	P=0.500	P=0.500	P=0.095	P=0.227
POLY 6	P=0.390	P=0.500	P=0.500	P=0.500	P=0.095	P=0.227
COCH-ARM / FISHERS	P=0.388	P=0.500	P=0.500	P=0.500	P=0.105	P=0.237
MAX-ISO-POLY-3	P=0.198	P=0.158	P=0.158	P=0.158	P=0.025*	P=0.068

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Thymus
Atrophy

LESION RATES

OVERALL (a)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	20%
INT SACRIFICE 1	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.500	P=0.227
POLY 1.5	P=0.500	P=0.227
POLY 6	P=0.500	P=0.227
COCH-ARM / FISHERS	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.158	P=0.068

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

Date Report Requested: 06/24/2008
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Thyroid Gland: Follicular Cell Hypertrophy

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (l)	---	---	---	---	---

STATISTICAL TESTS

POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE 1000 UG/KG 4600 UG/KG

Thyroid Gland: Follicular Cell
Hypertrophy

LESION RATES

OVERALL (a)	2/10 (20%)	8/10 (80%)
POLY-3 RATE (b)	2/10.00	8/10.00
POLY-3 PERCENT (g)	20%	80%
INT SACRIFICE 1	2/10 (20%)	8/10 (80%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.500	P<0.001**
POLY 1.5	P=0.500	P<0.001**
POLY 6	P=0.500	P<0.001**
COCH-ARM / FISHERS	P=0.500	P=0.003**
MAX-ISO-POLY-3	P=0.274	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: 06/24/2008
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

Uterus
 Dilatation

LESION RATES

OVERALL (a)	0/10 (0%)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/10.00	0/10.00	0/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	0%	20%	0%	0%	10%	20%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	216 (I)	---	---	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.525	P=0.227	(e)	(e)	P=0.500	P=0.227
POLY 1.5	P=0.525	P=0.227	(e)	(e)	P=0.500	P=0.227
POLY 6	P=0.525	P=0.227	(e)	(e)	P=0.500	P=0.227
COCH-ARM / FISHERS	P=0.525	P=0.237	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.150	P=0.068	(e)	(e)	P=0.158	P=0.068

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Uterus
Dilatation

LESION RATES

OVERALL (a)	3/10 (30%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	1/10.00
POLY-3 PERCENT (g)	30%	10%
INT SACRIFICE 1	3/10 (30%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.095	P=0.500
POLY 1.5	P=0.095	P=0.500
POLY 6	P=0.095	P=0.500
COCH-ARM / FISHERS	P=0.105	P=0.500
MAX-ISO-POLY-3	P=0.025*	P=0.158

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

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
Uterus Inflammation						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	1/10.00	0/10.00	1/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	10%	0%	10%	10%	20%
INT SACRIFICE 1	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)	---	216 (I)	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.341N	P=0.760	P=0.500N	P=0.760	P=0.760	P=0.500
POLY 1.5	P=0.341N	P=0.760	P=0.500N	P=0.760	P=0.760	P=0.500
POLY 6	P=0.341N	P=0.760	P=0.500N	P=0.760	P=0.760	P=0.500
COCH-ARM / FISHERS	P=0.337N	P=0.763N	P=0.500N	P=0.763N	P=0.763N	P=0.500
MAX-ISO-POLY-3	P=0.435N	P=1.000	P=0.158N	P=1.000	P=1.000	P=0.274

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

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

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Uterus
Inflammation

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (l)	---

STATISTICAL TESTS

POLY 3	P=0.760	P=0.500N
POLY 1.5	P=0.760	P=0.500N
POLY 6	P=0.760	P=0.500N
COCH-ARM / FISHERS	P=0.763N	P=0.500N
MAX-ISO-POLY-3	P=1.000	P=0.158N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
Uterus Metaplasia						
LESION RATES						
OVERALL (a)	4/10 (40%)	3/10 (30%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	4/10.00	3/10.00	2/10.00	3/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	40%	30%	20%	30%	10%	20%
INT SACRIFICE 1	4/10 (40%)	3/10 (30%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	216 (I)	216 (I)	216 (I)	216 (I)	216 (I)

STATISTICAL TESTS

POLY 3	P=0.079N	P=0.500N	P=0.318N	P=0.500N	P=0.148N	P=0.318N
POLY 1.5	P=0.079N	P=0.500N	P=0.318N	P=0.500N	P=0.148N	P=0.318N
POLY 6	P=0.079N	P=0.500N	P=0.318N	P=0.500N	P=0.148N	P=0.318N
COCH-ARM / FISHERS	P=0.078N	P=0.500N	P=0.314N	P=0.500N	P=0.152N	P=0.314N
MAX-ISO-POLY-3	P=0.034N*	P=0.327N	P=0.171N	P=0.327N	P=0.060N	P=0.171N

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE	1000 UG/KG	4600 UG/KG
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Uterus
Metaplasia

LESION RATES

OVERALL (a)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	0/10.00
POLY-3 PERCENT (g)	40%	0%
INT SACRIFICE 1	4/10 (40%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (l)	---

STATISTICAL TESTS

POLY 3	P=0.667	P=0.033N*
POLY 1.5	P=0.667	P=0.033N*
POLY 6	P=0.667	P=0.033N*
COCH-ARM / FISHERS	P=0.675N	P=0.043N*
MAX-ISO-POLY-3	P=1.000	P=0.007N**

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

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
 LAST REMOVAL AT 31 WEEKS**

DOSE	Females					
	0 UG/KG	10 UG/KG	30 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG

**Uterus: Endometrium
 Hyperplasia Cystic**

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)	2/10 (20%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	2/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	20%	0%	10%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)	2/10 (20%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	216 (I)	---	216 (I)	---	216 (I)	---

STATISTICAL TESTS

POLY 3	P=0.346N	P=0.500N	P=0.500	P=0.500N	P=0.760	P=0.500N
POLY 1.5	P=0.346N	P=0.500N	P=0.500	P=0.500N	P=0.760	P=0.500N
POLY 6	P=0.346N	P=0.500N	P=0.500	P=0.500N	P=0.760	P=0.500N
COCH-ARM / FISHERS	P=0.347N	P=0.500N	P=0.500	P=0.500N	P=0.763N	P=0.500N
MAX-ISO-POLY-3	P=0.298N	P=0.158N	P=0.274	P=0.158N	P=1.000	P=0.158N

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: 06/24/2008
Time Report Requested: 13:39:56
First Dose M/F: NA / 03/26/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(SD)
LAST REMOVAL AT 31 WEEKS

Females

DOSE 1000 UG/KG 4600 UG/KG

Uterus: Endometrium
Hyperplasia Cystic

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

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

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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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 ***