

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:16:02

First Dose M/F: 08/26/08 / 08/26/08

Lab: SRI

F_14 Wk. SSAC_RE

NTP Study Number: C20209

Lock Date: 08/31/2011

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: ALL

Treatment Groups: Include 001 0 MG/KG
Include 008 50 MG/KG

Include 002 0 MG/KG

Include 007 50 MG/KG

Study Gender: Both

TDMSE Version: 3.0.2.1_001

PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF PENTABROMODIPHENYL OXIDE (TECHNICAL) (DE 71)

MALE RATS

Organ

Liver

Liver: Hepatocyte

Thyroid Gland: Follicle

FEMALE RATS

Organ

Liver

Liver: Hepatocyte

Thyroid Gland: Follicle

Morphology

Fatty Change

Hypertrophy

Hypertrophy

Morphology

Fatty Change

Hypertrophy

Hypertrophy

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Cortex
Accessory Adrenal Cortical Nodule

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	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Cortex
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/10.00
POLY-3 PERCENT (g)	10%	10%
INT SACRIFICE 1	1/10 (10%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Medulla
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Heart
Cardiomyopathy

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	92 (I)	---

STATISTICAL TESTS

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney
Casts Protein

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney
Hydronephrosis

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	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.292
POLY 1.5	P=0.292
POLY 6	P=0.292
COCH-ARM / FISHERS	P=0.291
MAX-ISO-POLY-3	P=0.136

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Kidney
Inflammation Chronic

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	92 (I)	---

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Kidney: Renal Tubule
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Liver
Fatty Change

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	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.004**
POLY 1.5	P=0.004**
POLY 6	P=0.004**
COCH-ARM / FISHERS	P=0.012*
MAX-ISO-POLY-3	P<0.001**

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Liver: Hepatocyte
Hypertrophy

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	---	92 (l)

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	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	2/10 (20%)	4/10 (40%)
POLY-3 RATE (b)	2/10.00	4/10.00
POLY-3 PERCENT (g)	20%	40%
INT SACRIFICE 1	2/10 (20%)	4/10 (40%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.318
POLY 1.5	P=0.318
POLY 6	P=0.318
COCH-ARM / FISHERS	P=0.314
MAX-ISO-POLY-3	P=0.172

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Species/Strain: RATS/Wistar Han

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Lung
Metaplasia Osseous

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lymph Node
Pigmentation

LESION RATES

OVERALL (a)	0/1 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/1.00	1/1.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/1 (0%)	1/1 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lymph Node, Mandibular
Hyperplasia Lymphoid

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lymph Node: Popliteal
Pigmentation

LESION RATES

OVERALL (a)	0/1 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/1.00	0/1.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/1 (0%)	0/1 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Mesentery
Fibrosis Focal

LESION RATES

OVERALL (a)	0/0 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	1/1.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/0 (0%)	1/1 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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**Pancreas
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	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Preputial Gland
Inflammation Chronic

LESION RATES

OVERALL (a)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	9/10.00	8/10.00
POLY-3 PERCENT (g)	90%	80%
INT SACRIFICE 1	9/10 (90%)	8/10 (80%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.274N

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
-------------	----------------	-----------------

**Prostate
Inflammation Chronic**

LESION RATES

OVERALL (a)	2/10 (20%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	3/10.00
POLY-3 PERCENT (g)	20%	30%
INT SACRIFICE 1	2/10 (20%)	3/10 (30%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.310

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Spleen
Hematopoietic Cell Proliferation

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males		
DOSE	0 MG/KG	50 MG/KG
<hr/>		
Spleen Pigmentation		
<hr/>		
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	---	---
<hr/>		
STATISTICAL TESTS		
POLY 3		(n)
POLY 1.5		(n)
POLY 6		(n)
COCH-ARM / FISHERS		(n)
MAX-ISO-POLY-3		(n)

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
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Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Males

DOSE	0 MG/KG	50 MG/KG
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Thyroid Gland: Follicle
Hypertrophy

LESION RATES

OVERALL (a)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	40%
INT SACRIFICE 1	0/10 (0%)	4/10 (40%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Cortex
Accessory Adrenal Cortical Nodule

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	92 (I)	92 (I)

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Cortex
Vacuolization Cytoplasmic

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Adrenal Medulla
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/9 (0%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
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Clitoral Gland
Inflammation Chronic

LESION RATES

OVERALL (a)	7/10 (70%)	7/10 (70%)
POLY-3 RATE (b)	7/10.00	7/10.00
POLY-3 PERCENT (g)	70%	70%
INT SACRIFICE 1	7/10 (70%)	7/10 (70%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.678
POLY 1.5	P=0.678
POLY 6	P=0.678
COCH-ARM / FISHERS	P=0.686N
MAX-ISO-POLY-3	P=1.000

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Heart
Cardiomyopathy

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
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Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney
Casts Protein

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney
Hydronephrosis

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
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Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney
Inflammation Chronic

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Kidney: Renal Tubule
Vacuolization Cytoplasmic

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Liver
Fatty Change

LESION RATES

OVERALL (a)	0/9 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/9.00	3/10.00
POLY-3 PERCENT (g)	0%	30%
INT SACRIFICE 1	0/9 (0%)	3/10 (30%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

STATISTICAL TESTS

POLY 3	P=0.114
POLY 1.5	P=0.114
POLY 6	P=0.114
COCH-ARM / FISHERS	P=0.124
MAX-ISO-POLY-3	P=0.035*

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	0/9 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/9.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/9 (0%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

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	(e)

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lung
Inflammation Chronic

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	---	92 (l)

STATISTICAL TESTS

POLY 3	P=0.227
POLY 1.5	P=0.227
POLY 6	P=0.227
COCH-ARM / FISHERS	P=0.237
MAX-ISO-POLY-3	P=0.066

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lung
Metaplasia Osseous

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lung: Alveolus
Infiltration Cellular Histiocyte

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lymph Node
Pigmentation

LESION RATES

OVERALL (a)	1/2 (50%)	0/2 (0%)
POLY-3 RATE (b)	1/2.00	0/2.00
POLY-3 PERCENT (g)	50%	0%
INT SACRIFICE 1	1/2 (50%)	0/2 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	---

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:16:02
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
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Lymph Node, Mandibular
Hyperplasia Lymphoid

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	92 (I)	---

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Lymph Node: Popliteal
Pigmentation

LESION RATES

OVERALL (a)	0/2 (0%)	2/2 (100%)
POLY-3 RATE (b)	0/2.00	2/2.00
POLY-3 PERCENT (g)	0%	100%
INT SACRIFICE 1	0/2 (0%)	2/2 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (l)

STATISTICAL TESTS

POLY 3	P=0.167
POLY 1.5	P=0.167
POLY 6	P=0.167
COCH-ARM / FISHERS	P=0.167
MAX-ISO-POLY-3	(e)

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Mesentery
Fibrosis Focal

LESION RATES

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

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
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Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Pancreas
Atrophy

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	92 (I)	---

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
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LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Spleen
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

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LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Spleen
Pigmentation

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	92 (I)

STATISTICAL TESTS

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

Experiment Number: 20209 - 03
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LAST REMOVAL AT 14 WEEKS**

Females

DOSE	0 MG/KG	50 MG/KG
------	---------	----------

Thyroid Gland: Follicle
Hypertrophy

LESION RATES

OVERALL (a)	1/10 (10%)	5/10 (50%)
POLY-3 RATE (b)	1/10.00	5/10.00
POLY-3 PERCENT (g)	10%	50%
INT SACRIFICE 1	1/10 (10%)	5/10 (50%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (I)	92 (I)

STATISTICAL TESTS

POLY 3	P=0.061
POLY 1.5	P=0.061
POLY 6	P=0.061
COCH-ARM / FISHERS	P=0.070
MAX-ISO-POLY-3	P=0.020*

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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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.
 - (e) Value of statistic cannot be computed.
 - (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.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (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
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***