

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

Custom Report with Litter-Based Statistics

NTP Study Number: C03038
Lock Date: 05/25/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF SODIUM TUNGSTATE DIHYDRATE

MALE RATS

Organ

Adrenal Cortex

Adrenal Cortex: Bilateral

Adrenal Medulla

Blood Vessel

Eye: Cornea

Eye: Lens

Heart

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Kidney

Kidney: Pelvis

Kidney: Renal Tubule

Liver

Liver: Hepatocyte

Lung

Lymph Node, Mandibular

Lymph Node, Mandibular: Lymphatic Sinus

Lymph Node, Mesenteric

Lymph Node: Lumbar, Lymphatic Sinus

Nose: Nasopharyngeal Duct, Goblet Cell

Nose: Olfactory Epithelium

Parathyroid Gland

Pituitary Gland: Pars Distalis

Morphology

Atrophy

Hyperplasia Focal

Necrosis

Hyperplasia Focal

Hyperplasia Focal

Mineral

Inflammation Acute

Cataract

Inflammation Chronic

Mineral

Inflammation Chronic

Mineral

Polyarteritis Nodosa

Parasite Metazoan

Mineral

Dilation

Inflammation

Clear Cell Focus

Eosinophilic Focus

Inflammation Chronic

Fatty Change Focal

Necrosis

Hemorrhage

Inflammation Chronic

Hyperplasia

Dilation

Infiltration Cellular Histiocyte

Dilation

Hyperplasia

Accumulation, Hyaline Droplet

Hyperplasia Diffuse

Atrophy

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF SODIUM TUNGSTATE DIHYDRATE

Spleen: Lymphocyte
Stomach, Forestomach
Stomach, Glandular

Hyperplasia
Ulcer
Mineral

FEMALE RATS

Organ

Adrenal Cortex

Heart
Kidney
Kidney: Pelvis
Kidney: Renal Tubule

Lymph Node, Mandibular

Lymph Node, Mesenteric
Nose: Respiratory Epithelium
Pancreas: Acinus
Parathyroid Gland
Spleen
Spleen: Lymphocyte
Uterus

Morphology

Angiectasis
Hyperplasia Focal
Cardiomyopathy
Infarct
Dilation
Inflammation
Regeneration
Hyperplasia
Hyperplasia Lymphocyte
Infiltration Cellular Histiocyte
Accumulation, Hyaline Droplet
Hyperplasia
Hyperplasia Diffuse
Extramedullary Hematopoiesis
Hyperplasia
Cyst
Hyperplasia Atypical
Inflammation
Inflammation Chronic

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Angiectasis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	2/41.15
POLY-3 PERCENT (g)	0%	0%	0%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	610
STATISTICAL TESTS				
POLY 3	P=0.051	(e)	(e)	P=0.283
POLY 1.5	P=0.048*	(e)	(e)	P=0.260
POLY 6	P=0.055	(e)	(e)	P=0.322
RAO-SCOTT	P=0.132	(e)	(e)	P=0.370
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Degeneration Cystic				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/34.75	1/39.69	1/41.13	1/40.33
POLY-3 PERCENT (g)	5.8%	2.5%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	588	729 (T)	694	729 (T)
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STATISTICAL TESTS				
POLY 3	P=0.391N	P=0.454N	P=0.441N	P=0.448N
POLY 1.5	P=0.399N	P=0.475N	P=0.466N	P=0.473N
POLY 6	P=0.383N	P=0.417N	P=0.403N	P=0.408N
RAO-SCOTT	P=0.376N	P=0.433N	P=0.424N	P=0.429N
LITTER C-A/FISHERS	P=0.408N	P=0.500N	P=0.500N	P=0.500N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Extramedullary Hematopoiesis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Hyperplasia Focal				
<hr/>				
LESION RATES				
OVERALL (a)	26/50 (52%)	31/50 (62%)	23/50 (46%)	37/50 (74%)
LITTERS (b)	18/25 (72%)	20/25 (80%)	18/25 (72%)	24/25 (96%)
POLY-3 RATE (c)	26/41.00	31/45.12	23/44.75	37/44.72
POLY-3 PERCENT (g)	63.4%	68.7%	51.4%	82.7%
TERMINAL (d)	7/12 (58%)	18/26 (69%)	10/24 (42%)	26/29 (90%)
FIRST INCIDENCE	445	428	477	329
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STATISTICAL TESTS				
POLY 3	P=0.037*	P=0.380	P=0.173N	P=0.023*
POLY 1.5	P=0.031*	P=0.292	P=0.233N	P=0.018*
POLY 6	P=0.046*	P=0.533	P=0.103N	P=0.038*
RAO-SCOTT	P=0.059	P=0.387	P=0.192N	P=0.044*
LITTER C-A/FISHERS	P=0.031*	P=0.371	P=0.623	P=0.024*

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Hypertrophy Focal				
LESION RATES				
OVERALL (a)	21/50 (42%)	21/50 (42%)	23/50 (46%)	23/50 (46%)
LITTERS (b)	17/25 (68%)	16/25 (64%)	17/25 (68%)	18/25 (72%)
POLY-3 RATE (c)	21/39.04	21/42.31	23/43.19	23/44.97
POLY-3 PERCENT (g)	53.8%	49.6%	53.3%	51.1%
TERMINAL (d)	6/12 (50%)	14/26 (54%)	13/24 (54%)	14/29 (48%)
FIRST INCIDENCE	456	348	603	329
STATISTICAL TESTS				
POLY 3	P=0.497N	P=0.437N	P=0.571N	P=0.491N
POLY 1.5	P=0.489	P=0.501N	P=0.533	P=0.572
POLY 6	P=0.372N	P=0.338N	P=0.457N	P=0.344N
RAO-SCOTT	P=0.489N	P=0.424N	P=0.553N	P=0.477N
LITTER C-A/FISHERS	P=0.386	P=0.500N	P=0.619	P=0.500

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Karyomegaly				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	5/50 (10%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	5/25 (20%)	0/25 (0%)
POLY-3 RATE (c)	2/34.34	3/39.89	5/41.93	0/40.33
POLY-3 PERCENT (g)	5.8%	7.5%	11.9%	0%
TERMINAL (d)	0/12 (0%)	2/26 (8%)	1/24 (4%)	0/29 (0%)
FIRST INCIDENCE	600	677	611	---
STATISTICAL TESTS				
POLY 3	P=0.158N	P=0.568	P=0.303	P=0.203N
POLY 1.5	P=0.186N	P=0.536	P=0.264	P=0.219N
POLY 6	P=0.123N	P=0.622	P=0.372	P=0.179N
RAO-SCOTT	P=0.193N	P=0.543	P=0.305	P=0.202N
LITTER C-A/FISHERS	P=0.215N	P=0.500	P=0.209	P=0.245N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex				
Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	4/25 (16%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.64	4/41.03	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.8%	9.8%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	588	583	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.043N*	P=0.417	P=0.201N	P=0.204N
POLY 1.5	P=0.050N*	P=0.379	P=0.216N	P=0.220N
POLY 6	P=0.035N*	P=0.483	P=0.180N	P=0.182N
RAO-SCOTT	P=0.091N	P=0.445	P=0.263N	P=0.265N
LITTER C-A/FISHERS	P=0.059N	P=0.334	P=0.245N	P=0.245N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex Thrombus				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	2/39.91	2/41.06	1/40.33
POLY-3 PERCENT (g)	0%	5%	4.9%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	1/24 (4%)	1/29 (3%)
FIRST INCIDENCE	---	670	713	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.559	P=0.275	P=0.282	P=0.535
POLY 1.5	P=0.516	P=0.256	P=0.262	P=0.518
POLY 6	P=0.624	P=0.309	P=0.316	P=0.562
RAO-SCOTT	P=0.516	P=0.279	P=0.286	P=0.503
LITTER C-A/FISHERS	P=0.469	P=0.245	P=0.245	P=0.500

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex: Bilateral Hyperplasia Focal				
LESION RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	6/50 (12%)	10/50 (20%)
LITTERS (b)	5/25 (20%)	3/25 (12%)	6/25 (24%)	8/25 (32%)
POLY-3 RATE (c)	5/34.81	3/39.69	6/42.09	10/41.41
POLY-3 PERCENT (g)	14.4%	7.6%	14.3%	24.2%
TERMINAL (d)	1/12 (8%)	3/26 (12%)	3/24 (13%)	7/29 (24%)
FIRST INCIDENCE	575	729 (T)	517	436
STATISTICAL TESTS				
POLY 3	P=0.056	P=0.284N	P=0.622N	P=0.216
POLY 1.5	P=0.047*	P=0.317N	P=0.577	P=0.171
POLY 6	P=0.071	P=0.233N	P=0.540N	P=0.302
RAO-SCOTT	P=0.083	P=0.287N	P=0.602N	P=0.230
LITTER C-A/FISHERS	P=0.110	P=0.351N	P=0.500	P=0.260

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Cortex: Bilateral Hypertrophy Focal				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/50 (8%)	2/50 (4%)	5/50 (10%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	1/34.34	4/39.89	2/41.43	5/40.73
POLY-3 PERCENT (g)	2.9%	10%	4.8%	12.3%
TERMINAL (d)	0/12 (0%)	3/26 (12%)	0/24 (0%)	4/29 (14%)
FIRST INCIDENCE	588	677	611	616
STATISTICAL TESTS				
POLY 3	P=0.159	P=0.226	P=0.565	P=0.144
POLY 1.5	P=0.136	P=0.202	P=0.537	P=0.122
POLY 6	P=0.199	P=0.270	P=0.608	P=0.187
RAO-SCOTT	P=0.158	P=0.214	P=0.526	P=0.142
LITTER C-A/FISHERS	P=0.106	P=0.174	P=0.500	P=0.095

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Medulla Hyperplasia Focal				
LESION RATES				
OVERALL (a)	22/50 (44%)	14/50 (28%)	18/50 (36%)	15/50 (30%)
LITTERS (b)	18/25 (72%)	14/25 (56%)	15/25 (60%)	14/25 (56%)
POLY-3 RATE (c)	22/39.85	14/40.94	18/41.90	15/42.22
POLY-3 PERCENT (g)	55.2%	34.2%	43%	35.5%
TERMINAL (d)	5/12 (42%)	9/26 (35%)	14/24 (58%)	9/29 (31%)
FIRST INCIDENCE	482	550	578	581
STATISTICAL TESTS				
POLY 3	P=0.099N	P=0.039N*	P=0.178N	P=0.051N
POLY 1.5	P=0.126N	P=0.051N	P=0.206N	P=0.073N
POLY 6	P=0.069N	P=0.026N*	P=0.146N	P=0.029N*
RAO-SCOTT	P=0.100N	P=0.043N*	P=0.177N	P=0.054N
LITTER C-A/FISHERS	P=0.213N	P=0.189N	P=0.276N	P=0.189N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Medulla Thrombus				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/34.15	1/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	2.9%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	652	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adrenal Medulla: Bilateral Hyperplasia Focal				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	5/50 (10%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	4/35.17	3/39.88	5/41.84	2/40.33
POLY-3 PERCENT (g)	11.4%	7.5%	12%	5%
TERMINAL (d)	0/12 (0%)	2/26 (8%)	3/24 (13%)	2/29 (7%)
FIRST INCIDENCE	551	680	578	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.265N	P=0.431N	P=0.608	P=0.274N
POLY 1.5	P=0.290N	P=0.463N	P=0.563	P=0.304N
POLY 6	P=0.233N	P=0.378N	P=0.602N	P=0.231N
RAO-SCOTT	P=0.281N	P=0.427N	P=0.591	P=0.286N
LITTER C-A/FISHERS	P=0.440N	P=0.666	P=0.351	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Blood Vessel				
Mineral				
<hr/>				
LESION RATES				
OVERALL (a)	15/50 (30%)	9/50 (18%)	1/49 (2%)	0/49 (0%)
LITTERS (b)	12/25 (48%)	7/25 (28%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	15/40.51	9/44.66	1/40.51	0/39.33
POLY-3 PERCENT (g)	37%	20.2%	2.5%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/28 (0%)
FIRST INCIDENCE	445	348	725	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.065N	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.084N	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.044N*	P<0.001N**	P<0.001N**
RAO-SCOTT	P<0.001N**	P=0.119N	P=0.002N**	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.122N	P<0.001N**	P<0.001N**

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Epididymis				
Hypospermia				
LESION RATES				
OVERALL (a)	14/50 (28%)	14/50 (28%)	11/50 (22%)	12/49 (24%)
LITTERS (b)	12/25 (48%)	10/25 (40%)	10/25 (40%)	10/25 (40%)
POLY-3 RATE (c)	14/38.28	14/42.80	11/42.47	12/42.01
POLY-3 PERCENT (g)	36.6%	32.7%	25.9%	28.6%
TERMINAL (d)	1/12 (8%)	3/26 (12%)	4/24 (17%)	5/29 (17%)
FIRST INCIDENCE	551	576	603	613
STATISTICAL TESTS				
POLY 3	P=0.248N	P=0.447N	P=0.210N	P=0.297N
POLY 1.5	P=0.287N	P=0.512N	P=0.250N	P=0.357N
POLY 6	P=0.207N	P=0.349N	P=0.163N	P=0.222N
RAO-SCOTT	P=0.258N	P=0.447N	P=0.227N	P=0.309N
LITTER C-A/FISHERS	P=0.366N	P=0.388N	P=0.388N	P=0.388N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Eye: Cornea Inflammation Acute				
<hr/>				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	4/35.15	1/40.18	1/40.99	0/40.33
POLY-3 PERCENT (g)	11.4%	2.5%	2.4%	0%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	1/24 (4%)	0/29 (0%)
FIRST INCIDENCE	456	583	729 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.032N*	P=0.139N	P=0.134N	P=0.044N*
POLY 1.5	P=0.032N*	P=0.157N	P=0.152N	P=0.051N
POLY 6	P=0.032N*	P=0.112N	P=0.109N	P=0.033N*
RAO-SCOTT	P=0.050N*	P=0.179N	P=0.175N	P=0.076N
LITTER C-A/FISHERS	P=0.032N*	P=0.174N	P=0.174N	P=0.055N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Eye: Cornea				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	6/50 (12%)	3/50 (6%)	6/50 (12%)	3/50 (6%)
LITTERS (b)	6/25 (24%)	3/25 (12%)	4/25 (16%)	3/25 (12%)
POLY-3 RATE (c)	6/35.06	3/39.69	6/41.72	3/40.81
POLY-3 PERCENT (g)	17.1%	7.6%	14.4%	7.4%
TERMINAL (d)	2/12 (17%)	3/26 (12%)	3/24 (13%)	2/29 (7%)
FIRST INCIDENCE	551	729 (T)	517	588
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.221N	P=0.180N	P=0.495N	P=0.169N
POLY 1.5	P=0.247N	P=0.208N	P=0.548N	P=0.203N
POLY 6	P=0.189N	P=0.140N	P=0.414N	P=0.125N
RAO-SCOTT	P=0.237N	P=0.205N	P=0.491N	P=0.195N
LITTER C-A/FISHERS	P=0.230N	P=0.232N	P=0.363N	P=0.232N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Eye: Lens				
Cataract				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	2/41.05
POLY-3 PERCENT (g)	0%	0%	0%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	602
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.051	(e)	(e)	P=0.282
POLY 1.5	P=0.048*	(e)	(e)	P=0.260
POLY 6	P=0.055	(e)	(e)	P=0.321
RAO-SCOTT	P=0.136	(e)	(e)	P=0.376
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	2/35.24	1/39.69	0/40.99	3/40.73
POLY-3 PERCENT (g)	5.7%	2.5%	0%	7.4%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	2/29 (7%)
FIRST INCIDENCE	493	729 (T)	---	617
STATISTICAL TESTS				
POLY 3	P=0.355	P=0.458N	P=0.204N	P=0.566
POLY 1.5	P=0.347	P=0.479N	P=0.218N	P=0.533
POLY 6	P=0.364	P=0.422N	P=0.184N	P=0.620
RAO-SCOTT	P=0.398	P=0.456N	P=0.230N	P=0.555
LITTER C-A/FISHERS	P=0.335	P=0.500N	P=0.245N	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	47/50 (94%)	45/50 (90%)	44/50 (88%)	45/50 (90%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	47/48.49	45/49.01	44/48.94	45/47.47
POLY-3 PERCENT (g)	96.9%	91.8%	89.9%	94.8%
TERMINAL (d)	11/12 (92%)	22/26 (85%)	21/24 (88%)	28/29 (97%)
FIRST INCIDENCE	187	348	313	329
STATISTICAL TESTS				
POLY 3	P=0.467N	P=0.252N	P=0.144N	P=0.495N
POLY 1.5	P=0.424N	P=0.291N	P=0.150N	P=0.459N
POLY 6	P=0.536N	P=0.215N	P=0.164N	P=0.559N
RAO-SCOTT	P=0.475N	P=0.271N	P=0.176N	P=0.503N
LITTER C-A/FISHERS	(e)	P=1.000	P=1.000	P=1.000

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Heart				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	2/40.54
POLY-3 PERCENT (g)	0%	0%	0%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	673
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.050*	(e)	(e)	P=0.279
POLY 1.5	P=0.048*	(e)	(e)	P=0.258
POLY 6	P=0.053	(e)	(e)	P=0.316
RAO-SCOTT	P=0.129	(e)	(e)	P=0.366
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Heart				
Mineral				
<hr/>				
LESION RATES				
OVERALL (a)	13/50 (26%)	6/50 (12%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	11/25 (44%)	5/25 (20%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	13/39.19	6/42.51	0/40.99	1/40.33
POLY-3 PERCENT (g)	33.2%	14.1%	0%	2.5%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	482	348	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.034N*	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.044N*	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.023N*	P<0.001N**	P<0.001N**
RAO-SCOTT	P<0.001N**	P=0.074N	P<0.001N**	P=0.003N**
LITTER C-A/FISHERS	P<0.001N**	P=0.064N	P<0.001N**	P<0.001N**

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Heart				
Polyarteritis Nodosa				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	1/33.87	0/39.69	0/40.99	2/40.33
POLY-3 PERCENT (g)	3%	0%	0%	5%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	0/24 (0%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.250	P=0.468N	P=0.462N	P=0.561
POLY 1.5	P=0.249	P=0.483N	P=0.478N	P=0.531
POLY 6	P=0.248	P=0.443N	P=0.436N	P=0.608
RAO-SCOTT	P=0.332	P=0.498N	P=0.497N	P=0.566
LITTER C-A/FISHERS	P=0.244	P=0.500N	P=0.500N	P=0.500

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Heart Thrombus				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	2/39.86	0/40.99	1/40.33
POLY-3 PERCENT (g)	0%	5%	0%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	685	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.610	P=0.275	(e)	P=0.535
POLY 1.5	P=0.577	P=0.256	(e)	P=0.518
POLY 6	P=0.660	P=0.308	(e)	P=0.562
RAO-SCOTT	P=0.584	P=0.318	(e)	P=0.546
LITTER C-A/FISHERS	P=0.539	P=0.245	(e)	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Intestine Large, Cecum Edema				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/49 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	2/41.15	2/41.29	0/40.33
POLY-3 PERCENT (g)	0%	4.9%	4.8%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	1/24 (4%)	0/29 (0%)
FIRST INCIDENCE	---	348	603	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.420N	P=0.283	P=0.284	(e)
POLY 1.5	P=0.458N	P=0.261	P=0.261	(e)
POLY 6	P=0.363N	P=0.319	P=0.320	(e)
RAO-SCOTT	P=0.487N	P=0.328	P=0.331	(e)
LITTER C-A/FISHERS	P=0.500N	P=0.245	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Cecum Inflammation Acute				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/34.44	2/40.01	0/40.86	0/40.33
POLY-3 PERCENT (g)	2.9%	5%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	551	685	---	---
STATISTICAL TESTS				
POLY 3	P=0.163N	P=0.552	P=0.466N	P=0.469N
POLY 1.5	P=0.174N	P=0.527	P=0.482N	P=0.484N
POLY 6	P=0.149N	P=0.594	P=0.442N	P=0.444N
RAO-SCOTT	P=0.234N	P=0.565	P=0.515N	P=0.512N
LITTER C-A/FISHERS	P=0.186N	P=0.500	P=0.500N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Cecum Inflammation Chronic				
LESION RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	1/49 (2%)	0/50 (0%)
LITTERS (b)	5/25 (20%)	3/25 (12%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	5/35.92	3/41.71	1/41.29	0/40.33
POLY-3 PERCENT (g)	13.9%	7.2%	2.4%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	501	348	603	---
STATISTICAL TESTS				
POLY 3	P=0.010N**	P=0.276N	P=0.071N	P=0.021N*
POLY 1.5	P=0.011N*	P=0.310N	P=0.084N	P=0.025N*
POLY 6	P=0.009N**	P=0.228N	P=0.055N	P=0.016N*
RAO-SCOTT	P=0.021N*	P=0.308N	P=0.108N	P=0.045N*
LITTER C-A/FISHERS	P=0.011N*	P=0.351N	P=0.095N	P=0.025N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Cecum Mineral				
LESION RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	4/36.13	6/42.95	0/40.86	0/40.33
POLY-3 PERCENT (g)	11.1%	14%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	445	348	---	---
STATISTICAL TESTS				
POLY 3	P=0.006N**	P=0.482	P=0.045N*	P=0.046N*
POLY 1.5	P=0.008N**	P=0.431	P=0.052N	P=0.053N
POLY 6	P=0.005N**	P=0.562	P=0.037N*	P=0.037N*
RAO-SCOTT	P=0.023N*	P=0.497	P=0.088N	P=0.088N
LITTER C-A/FISHERS	P=0.009N**	P=0.363	P=0.055N	P=0.055N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Cecum: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.86	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Colon Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	2/41.01	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	460	---	---
STATISTICAL TESTS				
POLY 3	P=0.342N	P=0.282	(e)	(e)
POLY 1.5	P=0.370N	P=0.260	(e)	(e)
POLY 6	P=0.299N	P=0.318	(e)	(e)
RAO-SCOTT	P=0.461N	P=0.381	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Colon				
Parasite Metazoan				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/33.87	0/39.69	2/41.31	2/40.33
POLY-3 PERCENT (g)	5.9%	0%	4.8%	5%
TERMINAL (d)	2/12 (17%)	0/26 (0%)	1/24 (4%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	---	642	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.473	P=0.203N	P=0.621N	P=0.630N
POLY 1.5	P=0.460	P=0.219N	P=0.653N	P=0.662N
POLY 6	P=0.488	P=0.178N	P=0.566N	P=0.575N
RAO-SCOTT	P=0.495	P=0.206N	P=0.594N	P=0.601N
LITTER C-A/FISHERS	P=0.443	P=0.245N	P=0.695	P=0.695

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Colon				
Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	2/40.73
POLY-3 PERCENT (g)	0%	0%	0%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	617
STATISTICAL TESTS				
POLY 3	P=0.050*	(e)	(e)	P=0.280
POLY 1.5	P=0.048*	(e)	(e)	P=0.259
POLY 6	P=0.054	(e)	(e)	P=0.318
RAO-SCOTT	P=0.128	(e)	(e)	P=0.366
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Colon: Lymphoid Tissue Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	1/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	1/24 (4%)	0/29 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Large, Rectum Parasite Metazoan				
LESION RATES				
OVERALL (a)	2/50 (4%)	5/50 (10%)	6/50 (12%)	8/50 (16%)
LITTERS (b)	2/25 (8%)	5/25 (20%)	6/25 (24%)	8/25 (32%)
POLY-3 RATE (c)	2/34.27	5/39.69	6/41.03	8/40.33
POLY-3 PERCENT (g)	5.8%	12.6%	14.6%	19.8%
TERMINAL (d)	1/12 (8%)	5/26 (19%)	5/24 (21%)	8/29 (28%)
FIRST INCIDENCE	615	729 (T)	719	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.064	P=0.277	P=0.196	P=0.074
POLY 1.5	P=0.051	P=0.247	P=0.167	P=0.059
POLY 6	P=0.090	P=0.333	P=0.249	P=0.109
RAO-SCOTT	P=0.060	P=0.250	P=0.177	P=0.069
LITTER C-A/FISHERS	P=0.031*	P=0.209	P=0.123	P=0.037*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Small, Ileum Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.41	1/39.86	0/40.86	0/40.33
POLY-3 PERCENT (g)	5.8%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	619	685	---	---
STATISTICAL TESTS				
POLY 3	P=0.099N	P=0.449N	P=0.201N	P=0.203N
POLY 1.5	P=0.099N	P=0.473N	P=0.217N	P=0.219N
POLY 6	P=0.102N	P=0.409N	P=0.179N	P=0.180N
RAO-SCOTT	P=0.150N	P=0.482N	P=0.275N	P=0.275N
LITTER C-A/FISHERS	P=0.099N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Intestine Small, Jejunum: Peyer's Patch Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	2/40.20	3/41.01	1/40.33
POLY-3 PERCENT (g)	0%	5%	7.3%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	2/24 (8%)	1/29 (3%)
FIRST INCIDENCE	---	576	725	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.540	P=0.277	P=0.156	P=0.535
POLY 1.5	P=0.494	P=0.257	P=0.139	P=0.518
POLY 6	P=0.611	P=0.311	P=0.187	P=0.562
RAO-SCOTT	P=0.495	P=0.277	P=0.170	P=0.499
LITTER C-A/FISHERS	P=0.443	P=0.245	P=0.117	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Kidney Infarct				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney Mineral				
LESION RATES				
OVERALL (a)	13/50 (26%)	11/50 (22%)	2/50 (4%)	4/50 (8%)
LITTERS (b)	11/25 (44%)	9/25 (36%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	13/39.79	11/43.79	2/41.17	4/41.30
POLY-3 PERCENT (g)	32.7%	25.1%	4.9%	9.7%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	1/24 (4%)	1/29 (3%)
FIRST INCIDENCE	445	348	682	616
STATISTICAL TESTS				
POLY 3	P=0.002N**	P=0.300N	P<0.001N**	P=0.009N**
POLY 1.5	P=0.002N**	P=0.347N	P<0.001N**	P=0.012N*
POLY 6	P<0.001N**	P=0.231N	P<0.001N**	P=0.006N**
RAO-SCOTT	P=0.007N**	P=0.331N	P=0.005N**	P=0.024N*
LITTER C-A/FISHERS	P=0.003N**	P=0.387N	P=0.004N**	P=0.013N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney				
Nephropathy Chronic Progressive				
LESION RATES				
OVERALL (a)	50/50 (100%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	50/50.00	50/50.00	50/50.00	49/49.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	12/12 (100%)	26/26 (100%)	24/24 (100%)	29/29 (100%)
FIRST INCIDENCE	187	156	313	329
STATISTICAL TESTS				
POLY 3	P=1.000N	(e)	(e)	P=1.000N
POLY 1.5	P=1.000N	(e)	(e)	P=1.000N
POLY 6	P=0.198N	(e)	(e)	P=0.500N
RAO-SCOTT	P=1.000N	(e)	(e)	P=1.000N
LITTER C-A/FISHERS	(e)	(e)	(e)	P=1.000

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney: Pelvis Dilation				
LESION RATES				
OVERALL (a)	31/50 (62%)	24/50 (48%)	16/50 (32%)	17/50 (34%)
LITTERS (b)	23/25 (92%)	20/25 (80%)	13/25 (52%)	14/25 (56%)
POLY-3 RATE (c)	31/43.99	24/45.02	16/43.53	17/41.99
POLY-3 PERCENT (g)	70.5%	53.3%	36.8%	40.5%
TERMINAL (d)	6/12 (50%)	12/26 (46%)	6/24 (25%)	12/29 (41%)
FIRST INCIDENCE	189	348	578	436
STATISTICAL TESTS				
POLY 3	P=0.002N**	P=0.065N	P<0.001N**	P=0.003N**
POLY 1.5	P=0.002N**	P=0.081N	P<0.001N**	P=0.003N**
POLY 6	P=0.002N**	P=0.051N	P<0.001N**	P=0.003N**
RAO-SCOTT	P=0.003N**	P=0.071N	P<0.001N**	P=0.005N**
LITTER C-A/FISHERS	P=0.002N**	P=0.209N	P=0.002N**	P=0.004N**

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney: Renal Tubule Dilation				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	1/40.57	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	358	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney: Renal Tubule Inflammation				
LESION RATES				
OVERALL (a)	25/50 (50%)	33/50 (66%)	35/50 (70%)	41/50 (82%)
LITTERS (b)	17/25 (68%)	22/25 (88%)	23/25 (92%)	25/25 (100%)
POLY-3 RATE (c)	25/38.23	33/43.69	35/45.91	41/44.66
POLY-3 PERCENT (g)	65.4%	75.5%	76.2%	91.8%
TERMINAL (d)	12/12 (100%)	22/26 (85%)	20/24 (83%)	28/29 (97%)
FIRST INCIDENCE	501	358	373	566
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.197	P=0.174	P<0.001**
POLY 1.5	P<0.001**	P=0.126	P=0.087	P<0.001**
POLY 6	P=0.005**	P=0.388	P=0.424	P=0.003**
RAO-SCOTT	P=0.004**	P=0.226	P=0.203	P=0.005**
LITTER C-A/FISHERS	P=0.002**	P=0.085	P=0.037*	P=0.002**

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Kidney: Renal Tubule Regeneration				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	1/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver Angiectasis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	1/41.13	0/40.33
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	694	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	2/34.80	2/40.58	0/40.99	1/40.33
POLY-3 PERCENT (g)	5.8%	4.9%	0%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	568	348	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.277N	P=0.638N	P=0.202N	P=0.449N
POLY 1.5	P=0.285N	P=0.663N	P=0.216N	P=0.473N
POLY 6	P=0.268N	P=0.596N	P=0.181N	P=0.409N
RAO-SCOTT	P=0.292N	P=0.618N	P=0.226N	P=0.448N
LITTER C-A/FISHERS	P=0.294N	P=0.695	P=0.245N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	14/50 (28%)	23/50 (46%)	21/50 (42%)	25/50 (50%)
LITTERS (b)	12/25 (48%)	17/25 (68%)	15/25 (60%)	20/25 (80%)
POLY-3 RATE (c)	14/34.79	23/40.99	21/41.72	25/40.83
POLY-3 PERCENT (g)	40.2%	56.1%	50.3%	61.2%
TERMINAL (d)	10/12 (83%)	21/26 (81%)	19/24 (79%)	24/29 (83%)
FIRST INCIDENCE	575	428	605	581
STATISTICAL TESTS				
POLY 3	P=0.073	P=0.111	P=0.247	P=0.042*
POLY 1.5	P=0.049*	P=0.073	P=0.172	P=0.026*
POLY 6	P=0.134	P=0.217	P=0.420	P=0.099
RAO-SCOTT	P=0.079	P=0.122	P=0.248	P=0.055
LITTER C-A/FISHERS	P=0.024*	P=0.126	P=0.285	P=0.019*

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	2/41.29	0/40.33
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	682	---
STATISTICAL TESTS				
POLY 3	P=0.658	(e)	P=0.283	(e)
POLY 1.5	P=0.627	(e)	P=0.263	(e)
POLY 6	P=0.704	(e)	P=0.319	(e)
RAO-SCOTT	P=0.647	(e)	P=0.376	(e)
LITTER C-A/FISHERS	P=0.595	(e)	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/34.94	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	8.6%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	445	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.051N	P=0.096N	P=0.092N	P=0.094N
POLY 1.5	P=0.048N*	P=0.107N	P=0.103N	P=0.106N
POLY 6	P=0.060N	P=0.081N	P=0.077N	P=0.078N
RAO-SCOTT	P=0.109N	P=0.194N	P=0.190N	P=0.192N
LITTER C-A/FISHERS	P=0.046N*	P=0.117N	P=0.117N	P=0.117N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver				
Extramedullary Hematopoiesis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	1/39.85	0/40.99	2/40.33
POLY-3 PERCENT (g)	0%	2.5%	0%	5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	2/29 (7%)
FIRST INCIDENCE	---	687	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.165	P=0.532	(e)	P=0.278
POLY 1.5	P=0.153	P=0.517	(e)	P=0.257
POLY 6	P=0.185	P=0.558	(e)	P=0.313
RAO-SCOTT	P=0.220	P=0.548	(e)	P=0.326
LITTER C-A/FISHERS	P=0.138	P=0.500	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver				
Fatty Change Diffuse				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/34.17	0/39.69	1/41.15	1/40.73
POLY-3 PERCENT (g)	2.9%	0%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	648	---	688	616
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	4/25 (16%)
POLY-3 RATE (c)	1/34.31	0/39.69	1/41.30	4/40.80
POLY-3 PERCENT (g)	2.9%	0%	2.4%	9.8%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	2/29 (7%)
FIRST INCIDENCE	600	---	646	652
STATISTICAL TESTS				
POLY 3	P=0.038*	P=0.471N	P=0.718N	P=0.234
POLY 1.5	P=0.036*	P=0.485N	P=0.737N	P=0.206
POLY 6	P=0.041*	P=0.448N	P=0.686N	P=0.286
RAO-SCOTT	P=0.073	P=0.469N	P=0.693N	P=0.264
LITTER C-A/FISHERS	P=0.032*	P=0.500N	P=0.755	P=0.174

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver				
Mixed Cell Focus				
<hr/>				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	4/50 (8%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	4/25 (16%)	3/25 (12%)
POLY-3 RATE (c)	3/34.30	0/39.69	4/41.31	4/41.44
POLY-3 PERCENT (g)	8.8%	0%	9.7%	9.7%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	2/24 (8%)	1/29 (3%)
FIRST INCIDENCE	659	---	646	581
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.257	P=0.094N	P=0.601	P=0.603
POLY 1.5	P=0.237	P=0.105N	P=0.558	P=0.553
POLY 6	P=0.285	P=0.077N	P=0.642N	P=0.629N
RAO-SCOTT	P=0.316	P=0.132N	P=0.590	P=0.592
LITTER C-A/FISHERS	P=0.368	P=0.117N	P=0.500	P=0.666

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver Pigment				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	0/39.69	2/41.47	1/40.73
POLY-3 PERCENT (g)	0%	0%	4.8%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	648	616
STATISTICAL TESTS				
POLY 3	P=0.296	(e)	P=0.285	P=0.537
POLY 1.5	P=0.270	(e)	P=0.263	P=0.519
POLY 6	P=0.338	(e)	P=0.321	P=0.565
RAO-SCOTT	P=0.328	(e)	P=0.327	P=0.547
LITTER C-A/FISHERS	P=0.244	(e)	P=0.245	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver				
Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	1/39.69	0/40.99	2/40.46
POLY-3 PERCENT (g)	0%	2.5%	0%	4.9%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	729 (T)	---	697
STATISTICAL TESTS				
POLY 3	P=0.166	P=0.531	(e)	P=0.278
POLY 1.5	P=0.153	P=0.517	(e)	P=0.258
POLY 6	P=0.187	P=0.557	(e)	P=0.315
RAO-SCOTT	P=0.221	P=0.546	(e)	P=0.326
LITTER C-A/FISHERS	P=0.138	P=0.500	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver: Bile Duct Cyst				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/34.11	1/39.93	0/40.99	0/40.33
POLY-3 PERCENT (g)	2.9%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	666	666	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver: Bile Duct Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	42/50 (84%)	38/50 (76%)	43/50 (86%)	41/50 (82%)
LITTERS (b)	25/25 (100%)	23/25 (92%)	24/25 (96%)	24/25 (96%)
POLY-3 RATE (c)	42/45.61	38/45.16	43/47.67	41/46.08
POLY-3 PERCENT (g)	92.1%	84.2%	90.2%	89%
TERMINAL (d)	11/12 (92%)	21/26 (81%)	21/24 (88%)	26/29 (90%)
FIRST INCIDENCE	187	460	313	436
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.521N	P=0.173N	P=0.520N	P=0.432N
POLY 1.5	P=0.538	P=0.208N	P=0.608N	P=0.504N
POLY 6	P=0.444N	P=0.122N	P=0.380N	P=0.332N
RAO-SCOTT	P=0.520N	P=0.214N	P=0.523N	P=0.447N
LITTER C-A/FISHERS	P=0.500N	P=0.245N	P=0.500N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver: Hepatocyte				
Fatty Change Focal				
<hr/>				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	4/25 (16%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	4/35.17	1/40.44	0/40.99	1/40.75
POLY-3 PERCENT (g)	11.4%	2.5%	0%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	551	460	---	610
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.104N	P=0.137N	P=0.042N*	P=0.136N
POLY 1.5	P=0.102N	P=0.156N	P=0.049N*	P=0.155N
POLY 6	P=0.110N	P=0.112N	P=0.033N*	P=0.108N
RAO-SCOTT	P=0.123N	P=0.178N	P=0.074N	P=0.176N
LITTER C-A/FISHERS	P=0.100N	P=0.174N	P=0.055N	P=0.174N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Liver: Hepatocyte Necrosis				
LESION RATES				
OVERALL (a)	4/50 (8%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	2/25 (8%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	4/35.54	2/40.05	1/41.31	0/40.33
POLY-3 PERCENT (g)	11.3%	5%	2.4%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	187	680	642	---
STATISTICAL TESTS				
POLY 3	P=0.025N*	P=0.282N	P=0.135N	P=0.045N*
POLY 1.5	P=0.027N*	P=0.310N	P=0.154N	P=0.053N
POLY 6	P=0.024N*	P=0.236N	P=0.109N	P=0.034N*
RAO-SCOTT	P=0.042N*	P=0.308N	P=0.172N	P=0.074N
LITTER C-A/FISHERS	P=0.027N*	P=0.334N	P=0.174N	P=0.055N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver: Hepatocyte Vacuolation, Cytoplasmic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	2/41.70	0/40.33
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	611	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.657	(e)	P=0.286	(e)
POLY 1.5	P=0.627	(e)	P=0.264	(e)
POLY 6	P=0.704	(e)	P=0.323	(e)
RAO-SCOTT	P=0.644	(e)	P=0.370	(e)
LITTER C-A/FISHERS	P=0.595	(e)	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Liver: Oval Cell Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/34.44	0/39.69	1/41.29	2/40.73
POLY-3 PERCENT (g)	2.9%	0%	2.4%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	551	---	648	673
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.268	P=0.472N	P=0.719N	P=0.558
POLY 1.5	P=0.259	P=0.485N	P=0.737N	P=0.530
POLY 6	P=0.281	P=0.449N	P=0.688N	P=0.604
RAO-SCOTT	P=0.303	P=0.446N	P=0.686N	P=0.538
LITTER C-A/FISHERS	P=0.245	P=0.500N	P=0.755	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Lung Congestion				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/35.09	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.7%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	189	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.125N	P=0.210N	P=0.204N	P=0.207N
POLY 1.5	P=0.118N	P=0.224N	P=0.219N	P=0.223N
POLY 6	P=0.142N	P=0.188N	P=0.181N	P=0.183N
RAO-SCOTT	P=0.218N	P=0.340N	P=0.337N	P=0.338N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Lung Hemorrhage				
<hr/>				
LESION RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	5/25 (20%)	3/25 (12%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	5/35.84	3/40.08	0/40.99	1/41.22
POLY-3 PERCENT (g)	14%	7.5%	0%	2.4%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	189	670	---	351
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.030N*	P=0.294N	P=0.020N*	P=0.071N
POLY 1.5	P=0.032N*	P=0.326N	P=0.024N*	P=0.085N
POLY 6	P=0.029N*	P=0.243N	P=0.015N*	P=0.053N
RAO-SCOTT	P=0.049N*	P=0.321N	P=0.042N*	P=0.106N
LITTER C-A/FISHERS	P=0.034N*	P=0.351N	P=0.025N*	P=0.095N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Lung				
Infiltration Cellular Histiocyte				
<hr/>				
LESION RATES				
OVERALL (a)	21/50 (42%)	23/50 (46%)	17/50 (34%)	20/50 (40%)
LITTERS (b)	16/25 (64%)	15/25 (60%)	14/25 (56%)	13/25 (52%)
POLY-3 RATE (c)	21/39.50	23/43.93	17/42.54	20/43.25
POLY-3 PERCENT (g)	53.2%	52.4%	40%	46.3%
TERMINAL (d)	3/12 (25%)	13/26 (50%)	10/24 (42%)	12/29 (41%)
FIRST INCIDENCE	450	156	578	566
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.246N	P=0.560N	P=0.156N	P=0.337N
POLY 1.5	P=0.299N	P=0.547	P=0.192N	P=0.414N
POLY 6	P=0.182N	P=0.472N	P=0.118N	P=0.241N
RAO-SCOTT	P=0.273N	P=0.555N	P=0.193N	P=0.360N
LITTER C-A/FISHERS	P=0.226N	P=0.500N	P=0.387N	P=0.284N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Lung				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	14/50 (28%)	15/50 (30%)	17/50 (34%)	9/50 (18%)
LITTERS (b)	13/25 (52%)	14/25 (56%)	14/25 (56%)	9/25 (36%)
POLY-3 RATE (c)	14/36.59	15/42.09	17/43.13	9/40.85
POLY-3 PERCENT (g)	38.3%	35.6%	39.4%	22%
TERMINAL (d)	7/12 (58%)	8/26 (31%)	9/24 (38%)	6/29 (21%)
FIRST INCIDENCE	493	576	517	673
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.071N	P=0.497N	P=0.551	P=0.089N
POLY 1.5	P=0.097N	P=0.584N	P=0.455	P=0.124N
POLY 6	P=0.045N*	P=0.351N	P=0.488N	P=0.049N*
RAO-SCOTT	P=0.072N	P=0.477N	P=0.530	P=0.086N
LITTER C-A/FISHERS	P=0.125N	P=0.500	P=0.500	P=0.197N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lung Mineral				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	2/35.03	1/40.57	0/40.99	1/41.22
POLY-3 PERCENT (g)	5.7%	2.5%	0%	2.4%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	445	358	---	351
STATISTICAL TESTS				
POLY 3	P=0.363N	P=0.449N	P=0.203N	P=0.443N
POLY 1.5	P=0.363N	P=0.472N	P=0.217N	P=0.470N
POLY 6	P=0.367N	P=0.411N	P=0.182N	P=0.402N
RAO-SCOTT	P=0.354N	P=0.446N	P=0.225N	P=0.442N
LITTER C-A/FISHERS	P=0.365N	P=0.500N	P=0.245N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	1/33.87	0/39.69	2/40.99	3/40.33
POLY-3 PERCENT (g)	3%	0%	4.9%	7.4%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	2/24 (8%)	3/29 (10%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.120	P=0.468N	P=0.566	P=0.370
POLY 1.5	P=0.112	P=0.483N	P=0.538	P=0.338
POLY 6	P=0.132	P=0.443N	P=0.610	P=0.425
RAO-SCOTT	P=0.150	P=0.434N	P=0.541	P=0.364
LITTER C-A/FISHERS	P=0.100	P=0.500N	P=0.500	P=0.305

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node, Mandibular Hyperplasia				
LESION RATES				
OVERALL (a)	24/50 (48%)	35/50 (70%)	40/50 (80%)	40/50 (80%)
LITTERS (b)	19/25 (76%)	22/25 (88%)	25/25 (100%)	24/25 (96%)
POLY-3 RATE (c)	24/38.26	35/44.80	40/47.50	40/47.05
POLY-3 PERCENT (g)	62.7%	78.1%	84.2%	85%
TERMINAL (d)	9/12 (75%)	22/26 (85%)	21/24 (88%)	25/29 (86%)
FIRST INCIDENCE	568	156	313	329
STATISTICAL TESTS				
POLY 3	P=0.013*	P=0.075	P=0.011*	P=0.009**
POLY 1.5	P=0.003**	P=0.042*	P=0.003**	P=0.002**
POLY 6	P=0.063	P=0.175	P=0.053	P=0.050*
RAO-SCOTT	P=0.016*	P=0.091	P=0.020*	P=0.016*
LITTER C-A/FISHERS	P=0.016*	P=0.232	P=0.011*	P=0.049*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node, Mandibular Hyperplasia Lymphocyte				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	2/39.89	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	676	---	---
STATISTICAL TESTS				
POLY 3	P=0.346N	P=0.275	(e)	(e)
POLY 1.5	P=0.373N	P=0.256	(e)	(e)
POLY 6	P=0.305N	P=0.308	(e)	(e)
RAO-SCOTT	P=0.454N	P=0.364	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node, Mandibular Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.53	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.8%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	614	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.127N	P=0.207N	P=0.201N	P=0.204N
POLY 1.5	P=0.120N	P=0.221N	P=0.215N	P=0.219N
POLY 6	P=0.144N	P=0.185N	P=0.179N	P=0.181N
RAO-SCOTT	P=0.216N	P=0.334N	P=0.331N	P=0.332N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node, Mandibular: Lymphatic Sinus Dilation				
LESION RATES				
OVERALL (a)	4/50 (8%)	13/50 (26%)	8/50 (16%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	11/25 (44%)	8/25 (32%)	5/25 (20%)
POLY-3 RATE (c)	4/34.77	13/41.12	8/41.49	6/40.33
POLY-3 PERCENT (g)	11.5%	31.6%	19.3%	14.9%
TERMINAL (d)	2/12 (17%)	9/26 (35%)	5/24 (21%)	6/29 (21%)
FIRST INCIDENCE	593	557	603	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.336N	P=0.031*	P=0.270	P=0.465
POLY 1.5	P=0.405N	P=0.022*	P=0.228	P=0.418
POLY 6	P=0.244N	P=0.057	P=0.346	P=0.543
RAO-SCOTT	P=0.386N	P=0.038*	P=0.262	P=0.443
LITTER C-A/FISHERS	P=0.545N	P=0.013*	P=0.085	P=0.351

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Lymph Node, Mesenteric Atrophy				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	0/39.52
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node, Mesenteric Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)	0/49 (0%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	3/35.23	3/40.13	1/41.03	0/39.52
POLY-3 PERCENT (g)	8.5%	7.5%	2.4%	0%
TERMINAL (d)	0/12 (0%)	2/26 (8%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	493	600	719	---
STATISTICAL TESTS				
POLY 3	P=0.042N*	P=0.602N	P=0.252N	P=0.098N
POLY 1.5	P=0.047N*	P=0.631N	P=0.274N	P=0.110N
POLY 6	P=0.037N*	P=0.551N	P=0.220N	P=0.082N
RAO-SCOTT	P=0.066N	P=0.587N	P=0.277N	P=0.130N
LITTER C-A/FISHERS	P=0.049N*	P=0.666	P=0.305N	P=0.117N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node: Lumbar Hemorrhage				
LESION RATES				
OVERALL (a)	0/3 (0%)	2/5 (40%)	0/3 (0%)	0/3 (0%)
LITTERS (b)	0/3 (0%)	2/5 (40%)	0/3 (0%)	0/3 (0%)
POLY-3 RATE (c)	0/1.90	2/4.06	0/2.79	0/2.81
POLY-3 PERCENT (g)	0%	49.3%	0%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/2 (0%)	0/2 (0%)
FIRST INCIDENCE	---	621	---	---
STATISTICAL TESTS				
POLY 3	P=0.332N	P=0.403	(e)	(e)
POLY 1.5	P=0.380N	P=0.370	(e)	(e)
POLY 6	P=0.262N	P=0.479	(e)	(e)
RAO-SCOTT	P=0.405N	P=0.353	(e)	(e)
LITTER C-A/FISHERS	P=0.438N	P=0.357	(e)	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node: Lumbar, Lymphatic Sinus Dilation				
LESION RATES				
OVERALL (a)	0/3 (0%)	0/5 (0%)	0/3 (0%)	2/3 (67%)
LITTERS (b)	0/3 (0%)	0/5 (0%)	0/3 (0%)	2/3 (67%)
POLY-3 RATE (c)	0/1.90	0/3.68	0/2.79	2/2.81
POLY-3 PERCENT (g)	0%	0%	0%	71.2%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/2 (0%)	2/2 (100%)
FIRST INCIDENCE	---	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.005**	(e)	(e)	P=0.258
POLY 1.5	P=0.004**	(e)	(e)	P=0.204
POLY 6	P=0.007**	(e)	(e)	P=0.380
RAO-SCOTT	P=0.053	(e)	(e)	P=0.261
LITTER C-A/FISHERS	P=0.021*	(e)	(e)	P=0.200

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Lymph Node: Mediastinal Hemorrhage				
LESION RATES				
OVERALL (a)	0/3 (0%)	2/5 (40%)	1/3 (33%)	0/3 (0%)
LITTERS (b)	0/3 (0%)	2/5 (40%)	1/3 (33%)	0/3 (0%)
POLY-3 RATE (c)	0/1.90	2/4.42	1/2.79	0/2.81
POLY-3 PERCENT (g)	0%	45.3%	35.9%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	1/2 (50%)	0/2 (0%)
FIRST INCIDENCE	---	576	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.379N	P=0.432	P=0.576	(e)
POLY 1.5	P=0.441N	P=0.386	P=0.539	(e)
POLY 6	P=0.289N	P=0.521	P=0.638	(e)
RAO-SCOTT	P=0.482N	P=0.408	P=0.560	(e)
LITTER C-A/FISHERS	P=0.513N	P=0.357	P=0.500	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/48 (0%)	0/47 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/32.48	0/36.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/23 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Mammary Gland: Duct Dilation				
LESION RATES				
OVERALL (a)	1/48 (2%)	1/47 (2%)	1/50 (2%)	1/49 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/32.77	1/36.89	1/40.99	1/40.33
POLY-3 PERCENT (g)	3.1%	2.7%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	0/23 (0%)	1/24 (4%)	1/29 (3%)
FIRST INCIDENCE	652	676	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Mesentery				
Polyarteritis Nodosa				
<hr/>				
LESION RATES				
OVERALL (a)	2/2 (100%)	3/5 (60%)	1/2 (50%)	2/3 (67%)
LITTERS (b)	2/2 (100%)	3/5 (60%)	1/2 (50%)	2/3 (67%)
POLY-3 RATE (c)	2/2.00	3/4.82	1/1.95	2/3.00
POLY-3 PERCENT (g)	100%	62.2%	51.2%	66.7%
TERMINAL (d)	0/0 (0%)	2/3 (67%)	0/0 (0%)	1/2 (50%)
FIRST INCIDENCE	632	677	578	697
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.487N	P=0.475N	P=0.515N	P=0.577N
POLY 1.5	P=0.493N	P=0.463N	P=0.508N	P=0.577N
POLY 6	P=0.475N	P=0.498N	P=0.531N	P=0.577N
RAO-SCOTT	P=0.561N	P=0.630N	P=0.694N	P=0.746N
LITTER C-A/FISHERS	P=0.500N	P=0.476N	P=0.500N	P=0.600N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Nose				
Inflammation Acute				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	2/40.83	1/41.13	1/40.33
POLY-3 PERCENT (g)	0%	4.9%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	156	694	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.580	P=0.281	P=0.538	P=0.535
POLY 1.5	P=0.542	P=0.261	P=0.522	P=0.518
POLY 6	P=0.637	P=0.315	P=0.565	P=0.562
RAO-SCOTT	P=0.534	P=0.277	P=0.500	P=0.494
LITTER C-A/FISHERS	P=0.500	P=0.245	P=0.500	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Nose: Glands, Respiratory Epithelium Dilation				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Goblet Cell, Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	16/50 (32%)	19/50 (38%)	14/50 (28%)	17/50 (34%)
LITTERS (b)	15/25 (60%)	14/25 (56%)	14/25 (56%)	14/25 (56%)
POLY-3 RATE (c)	16/37.45	19/42.08	14/44.91	17/42.03
POLY-3 PERCENT (g)	42.7%	45.2%	31.2%	40.5%
TERMINAL (d)	7/12 (58%)	11/26 (42%)	6/24 (25%)	13/29 (45%)
FIRST INCIDENCE	493	460	313	566
STATISTICAL TESTS				
POLY 3	P=0.376N	P=0.504	P=0.192N	P=0.509N
POLY 1.5	P=0.440N	P=0.421	P=0.268N	P=0.588
POLY 6	P=0.294N	P=0.546N	P=0.111N	P=0.376N
RAO-SCOTT	P=0.373N	P=0.489	P=0.194N	P=0.494N
LITTER C-A/FISHERS	P=0.459N	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Nasopharyngeal Duct, Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	14/50 (28%)	7/50 (14%)	10/50 (20%)
LITTERS (b)	4/25 (16%)	10/25 (40%)	7/25 (28%)	9/25 (36%)
POLY-3 RATE (c)	4/34.66	14/41.20	7/42.14	10/40.86
POLY-3 PERCENT (g)	11.5%	34%	16.6%	24.5%
TERMINAL (d)	2/12 (17%)	9/26 (35%)	4/24 (17%)	9/29 (31%)
FIRST INCIDENCE	575	460	477	566
STATISTICAL TESTS				
POLY 3	P=0.376	P=0.019*	P=0.381	P=0.124
POLY 1.5	P=0.304	P=0.012*	P=0.328	P=0.096
POLY 6	P=0.489	P=0.037*	P=0.468	P=0.183
RAO-SCOTT	P=0.343	P=0.031*	P=0.379	P=0.141
LITTER C-A/FISHERS	P=0.169	P=0.057	P=0.248	P=0.098

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	42/50 (84%)	46/50 (92%)	46/50 (92%)	44/50 (88%)
LITTERS (b)	22/25 (88%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	42/45.95	46/47.69	46/48.01	44/47.07
POLY-3 PERCENT (g)	91.4%	96.5%	95.8%	93.5%
TERMINAL (d)	12/12 (100%)	26/26 (100%)	23/24 (96%)	27/29 (93%)
FIRST INCIDENCE	187	156	373	351
STATISTICAL TESTS				
POLY 3	P=0.520	P=0.230	P=0.293	P=0.507
POLY 1.5	P=0.403	P=0.204	P=0.231	P=0.401
POLY 6	P=0.499N	P=0.326	P=0.459	P=0.704
RAO-SCOTT	P=0.513	P=0.285	P=0.333	P=0.506
LITTER C-A/FISHERS	P=0.046*	P=0.117	P=0.117	P=0.117

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Olfactory Epithelium Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	2/40.17	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	585	---	---
STATISTICAL TESTS				
POLY 3	P=0.345N	P=0.277	(e)	(e)
POLY 1.5	P=0.372N	P=0.257	(e)	(e)
POLY 6	P=0.303N	P=0.311	(e)	(e)
RAO-SCOTT	P=0.461N	P=0.376	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Olfactory Epithelium Vacuolation, Cytoplasmic				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	3/40.32	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	7.4%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	666	---	---
STATISTICAL TESTS				
POLY 3	P=0.239N	P=0.152	(e)	(e)
POLY 1.5	P=0.271N	P=0.135	(e)	(e)
POLY 6	P=0.193N	P=0.185	(e)	(e)
RAO-SCOTT	P=0.366N	P=0.246	(e)	(e)
LITTER C-A/FISHERS	P=0.310N	P=0.117	(e)	(e)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	1/40.33
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Respiratory Epithelium Inflammation Acute				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	1/25 (4%)	5/25 (20%)
POLY-3 RATE (c)	2/34.85	2/40.20	1/41.11	5/40.51
POLY-3 PERCENT (g)	5.7%	5%	2.4%	12.3%
TERMINAL (d)	1/12 (8%)	1/26 (4%)	0/24 (0%)	4/29 (14%)
FIRST INCIDENCE	187	576	698	682
STATISTICAL TESTS				
POLY 3	P=0.132	P=0.642N	P=0.443N	P=0.279
POLY 1.5	P=0.123	P=0.670N	P=0.469N	P=0.244
POLY 6	P=0.147	P=0.592N	P=0.399N	P=0.346
RAO-SCOTT	P=0.158	P=0.611N	P=0.422N	P=0.280
LITTER C-A/FISHERS	P=0.108	P=0.695	P=0.500N	P=0.209

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Nose: Respiratory Epithelium Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/34.04	3/40.81	1/41.20	1/40.33
POLY-3 PERCENT (g)	2.9%	7.4%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	685	358	673	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.380N	P=0.372	P=0.717N	P=0.722N
POLY 1.5	P=0.409N	P=0.341	P=0.736N	P=0.741N
POLY 6	P=0.339N	P=0.425	P=0.684N	P=0.689N
RAO-SCOTT	P=0.405N	P=0.365	P=0.679N	P=0.682N
LITTER C-A/FISHERS	P=0.443N	P=0.305	P=0.755	P=0.755

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pancreas				
Polyarteritis Nodosa				
<hr/>				
LESION RATES				
OVERALL (a)	5/50 (10%)	1/50 (2%)	4/50 (8%)	4/50 (8%)
LITTERS (b)	5/25 (20%)	1/25 (4%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	5/35.88	1/39.91	4/42.30	4/40.73
POLY-3 PERCENT (g)	13.9%	2.5%	9.5%	9.8%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	3/29 (10%)
FIRST INCIDENCE	501	672	578	617
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.576	P=0.077N	P=0.397N	P=0.420N
POLY 1.5	P=0.559	P=0.088N	P=0.439N	P=0.459N
POLY 6	P=0.566N	P=0.061N	P=0.335N	P=0.360N
RAO-SCOTT	P=0.546N	P=0.097N	P=0.401N	P=0.420N
LITTER C-A/FISHERS	P=0.560	P=0.095N	P=0.351N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	5/50 (10%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	5/25 (20%)	1/25 (4%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	5/35.29	1/39.69	3/41.01	3/40.91
POLY-3 PERCENT (g)	14.2%	2.5%	7.3%	7.3%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	2/24 (8%)	1/29 (3%)
FIRST INCIDENCE	632	729 (T)	725	617
STATISTICAL TESTS				
POLY 3	P=0.391N	P=0.074N	P=0.275N	P=0.276N
POLY 1.5	P=0.404N	P=0.086N	P=0.307N	P=0.314N
POLY 6	P=0.377N	P=0.059N	P=0.231N	P=0.224N
RAO-SCOTT	P=0.362N	P=0.085N	P=0.276N	P=0.277N
LITTER C-A/FISHERS	P=0.418N	P=0.095N	P=0.351N	P=0.351N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pancreas: Acinus Hyperplasia				
LESION RATES				
OVERALL (a)	22/50 (44%)	19/50 (38%)	22/50 (44%)	21/50 (42%)
LITTERS (b)	16/25 (64%)	15/25 (60%)	16/25 (64%)	18/25 (72%)
POLY-3 RATE (c)	22/38.52	19/40.92	22/43.48	21/40.91
POLY-3 PERCENT (g)	57.1%	46.4%	50.6%	51.3%
TERMINAL (d)	9/12 (75%)	15/26 (58%)	11/24 (46%)	18/29 (62%)
FIRST INCIDENCE	456	585	575	652
STATISTICAL TESTS				
POLY 3	P=0.444N	P=0.221N	P=0.350N	P=0.379N
POLY 1.5	P=0.491N	P=0.276N	P=0.446N	P=0.441N
POLY 6	P=0.375N	P=0.142N	P=0.212N	P=0.278N
RAO-SCOTT	P=0.435N	P=0.234N	P=0.353N	P=0.379N
LITTER C-A/FISHERS	P=0.273	P=0.500N	P=0.616	P=0.381

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Parathyroid Gland Hyperplasia Diffuse				
LESION RATES				
OVERALL (a)	39/43 (91%)	34/45 (76%)	34/45 (76%)	28/45 (62%)
LITTERS (b)	23/23 (100%)	22/25 (88%)	24/25 (96%)	22/25 (88%)
POLY-3 RATE (c)	39/41.08	34/42.48	34/41.61	28/38.17
POLY-3 PERCENT (g)	94.9%	80%	81.7%	73.4%
TERMINAL (d)	10/11 (91%)	17/21 (81%)	19/22 (86%)	20/26 (77%)
FIRST INCIDENCE	445	348	491	602
STATISTICAL TESTS				
POLY 3	P=0.010N**	P=0.032N*	P=0.049N*	P=0.004N**
POLY 1.5	P=0.005N**	P=0.033N*	P=0.041N*	P=0.002N**
POLY 6	P=0.021N*	P=0.037N*	P=0.063N	P=0.011N*
RAO-SCOTT	P=0.016N*	P=0.044N*	P=0.064N	P=0.010N**
LITTER C-A/FISHERS	P=0.176N	P=0.133N	P=0.521N	P=0.133N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Parathyroid Gland Hyperplasia Focal				
LESION RATES				
OVERALL (a)	0/43 (0%)	3/45 (7%)	0/45 (0%)	4/45 (9%)
LITTERS (b)	0/23 (0%)	3/25 (12%)	0/25 (0%)	4/25 (16%)
POLY-3 RATE (c)	0/29.68	3/35.44	0/37.11	4/36.26
POLY-3 PERCENT (g)	0%	8.5%	0%	11%
TERMINAL (d)	0/11 (0%)	1/21 (5%)	0/22 (0%)	3/26 (12%)
FIRST INCIDENCE	---	557	---	613
STATISTICAL TESTS				
POLY 3	P=0.091	P=0.151	(e)	P=0.088
POLY 1.5	P=0.079	P=0.138	(e)	P=0.075
POLY 6	P=0.114	P=0.177	(e)	P=0.113
RAO-SCOTT	P=0.126	P=0.188	(e)	P=0.124
LITTER C-A/FISHERS	P=0.071	P=0.133	(e)	P=0.065

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pituitary Gland: Pars Distalis Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	0/39.69	0/40.99	2/41.74
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	4
STATISTICAL TESTS				
POLY 3	P=0.052	(e)	(e)	P=0.286
POLY 1.5	P=0.049*	(e)	(e)	P=0.264
POLY 6	P=0.055	(e)	(e)	P=0.325
RAO-SCOTT	P=0.132	(e)	(e)	P=0.371
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	14/50 (28%)	18/50 (36%)	21/50 (42%)	14/50 (28%)
LITTERS (b)	13/25 (52%)	16/25 (64%)	17/25 (68%)	12/25 (48%)
POLY-3 RATE (c)	14/36.97	18/42.41	21/44.39	14/41.56
POLY-3 PERCENT (g)	37.9%	42.4%	47.3%	33.7%
TERMINAL (d)	5/12 (42%)	12/26 (46%)	13/24 (54%)	10/29 (35%)
FIRST INCIDENCE	501	358	477	581
STATISTICAL TESTS				
POLY 3	P=0.336N	P=0.425	P=0.259	P=0.439N
POLY 1.5	P=0.407N	P=0.347	P=0.182	P=0.513N
POLY 6	P=0.243N	P=0.552	P=0.397	P=0.328N
RAO-SCOTT	P=0.343N	P=0.408	P=0.250	P=0.420N
LITTER C-A/FISHERS	P=0.366N	P=0.284	P=0.193	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Pituitary Gland: Pars Distalis Hypertrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	2/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/12 (0%)	2/26 (8%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.346N	P=0.274	(e)	(e)
POLY 1.5	P=0.373N	P=0.256	(e)	(e)
POLY 6	P=0.306N	P=0.306	(e)	(e)
RAO-SCOTT	P=0.453N	P=0.362	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Prostate				
Decreased Secretary Fluid				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	2/34.72	0/39.69	0/40.99	4/41.22
POLY-3 PERCENT (g)	5.8%	0%	0%	9.7%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	571	---	---	581
STATISTICAL TESTS				
POLY 3	P=0.103	P=0.208N	P=0.202N	P=0.418
POLY 1.5	P=0.103	P=0.221N	P=0.216N	P=0.378
POLY 6	P=0.102	P=0.187N	P=0.181N	P=0.485
RAO-SCOTT	P=0.222	P=0.324N	P=0.320N	P=0.477
LITTER C-A/FISHERS	P=0.243	P=0.245N	P=0.245N	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Prostate: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	3/33.87	4/39.69	3/41.11	3/40.75
POLY-3 PERCENT (g)	8.9%	10.1%	7.3%	7.4%
TERMINAL (d)	3/12 (25%)	4/26 (15%)	2/24 (8%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	698	610
STATISTICAL TESTS				
POLY 3	P=0.437N	P=0.587	P=0.570N	P=0.575N
POLY 1.5	P=0.475N	P=0.545	P=0.611N	P=0.618N
POLY 6	P=0.384N	P=0.654N	P=0.503N	P=0.501N
RAO-SCOTT	P=0.422N	P=0.546	P=0.529N	P=0.533N
LITTER C-A/FISHERS	P=0.520N	P=0.500	P=0.666	P=0.666

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Seminal Vesicle				
Decreased Secretory Fluid				
<hr/>				
LESION RATES				
OVERALL (a)	9/50 (18%)	5/50 (10%)	5/50 (10%)	7/50 (14%)
LITTERS (b)	8/25 (32%)	5/25 (20%)	5/25 (20%)	5/25 (20%)
POLY-3 RATE (c)	9/37.11	5/41.25	5/41.65	7/42.42
POLY-3 PERCENT (g)	24.3%	12.1%	12%	16.5%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	2/24 (8%)	1/29 (3%)
FIRST INCIDENCE	551	583	603	581
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.356N	P=0.132N	P=0.128N	P=0.281N
POLY 1.5	P=0.382N	P=0.159N	P=0.152N	P=0.332N
POLY 6	P=0.322N	P=0.097N	P=0.098N	P=0.210N
RAO-SCOTT	P=0.346N	P=0.159N	P=0.155N	P=0.300N
LITTER C-A/FISHERS	P=0.247N	P=0.260N	P=0.260N	P=0.260N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Seminal Vesicle Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/33.87	2/40.57	1/40.99	2/40.33
POLY-3 PERCENT (g)	0%	4.9%	2.4%	5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	1/24 (4%)	2/29 (7%)
FIRST INCIDENCE	---	358	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.307	P=0.279	P=0.538	P=0.278
POLY 1.5	P=0.277	P=0.259	P=0.522	P=0.257
POLY 6	P=0.356	P=0.313	P=0.563	P=0.313
RAO-SCOTT	P=0.302	P=0.283	P=0.508	P=0.281
LITTER C-A/FISHERS	P=0.243	P=0.245	P=0.500	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	2/25 (8%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	3/34.93	2/40.41	2/41.50	3/40.46
POLY-3 PERCENT (g)	8.6%	5%	4.8%	7.4%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	1/24 (4%)	2/29 (7%)
FIRST INCIDENCE	445	557	575	697
STATISTICAL TESTS				
POLY 3	P=0.586	P=0.433N	P=0.422N	P=0.594N
POLY 1.5	P=0.566	P=0.465N	P=0.455N	P=0.628N
POLY 6	P=0.580N	P=0.380N	P=0.369N	P=0.533N
RAO-SCOTT	P=0.564N	P=0.406N	P=0.396N	P=0.562N
LITTER C-A/FISHERS	P=0.545	P=0.500N	P=0.500N	P=0.666

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Skin				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/33.87	2/39.89	2/40.99	2/40.33
POLY-3 PERCENT (g)	3%	5%	4.9%	5%
TERMINAL (d)	1/12 (8%)	1/26 (4%)	2/24 (8%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	676	729 (T)	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.493	P=0.557	P=0.566	P=0.561
POLY 1.5	P=0.460	P=0.530	P=0.538	P=0.531
POLY 6	P=0.543	P=0.602	P=0.610	P=0.608
RAO-SCOTT	P=0.462	P=0.503	P=0.514	P=0.508
LITTER C-A/FISHERS	P=0.421	P=0.500	P=0.500	P=0.500

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Skin Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/33.87	0/39.69	1/40.99	2/40.54
POLY-3 PERCENT (g)	3%	0%	2.4%	4.9%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	1/24 (4%)	1/29 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	673
STATISTICAL TESTS				
POLY 3	P=0.268	P=0.468N	P=0.717N	P=0.562
POLY 1.5	P=0.259	P=0.483N	P=0.736N	P=0.532
POLY 6	P=0.280	P=0.443N	P=0.684N	P=0.611
RAO-SCOTT	P=0.301	P=0.435N	P=0.679N	P=0.537
LITTER C-A/FISHERS	P=0.245	P=0.500N	P=0.755	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Skin: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/33.87	1/39.69	2/40.99	0/40.33
POLY-3 PERCENT (g)	0%	2.5%	4.9%	0%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	2/24 (8%)	0/29 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.554N	P=0.531	P=0.282	(e)
POLY 1.5	P=0.584N	P=0.517	P=0.262	(e)
POLY 6	P=0.506N	P=0.557	P=0.315	(e)
RAO-SCOTT	P=0.588N	P=0.537	P=0.322	(e)
LITTER C-A/FISHERS	P=0.617N	P=0.500	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Spleen				
Extramedullary Hematopoiesis				
<hr/>				
LESION RATES				
OVERALL (a)	5/50 (10%)	9/50 (18%)	7/50 (14%)	4/50 (8%)
LITTERS (b)	4/25 (16%)	9/25 (36%)	7/25 (28%)	4/25 (16%)
POLY-3 RATE (c)	5/34.46	9/40.85	7/41.42	4/40.33
POLY-3 PERCENT (g)	14.5%	22%	16.9%	9.9%
TERMINAL (d)	3/12 (25%)	6/26 (23%)	6/24 (25%)	4/29 (14%)
FIRST INCIDENCE	632	428	605	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.193N	P=0.295	P=0.513	P=0.401N
POLY 1.5	P=0.237N	P=0.244	P=0.455	P=0.449N
POLY 6	P=0.140N	P=0.388	P=0.603	P=0.327N
RAO-SCOTT	P=0.211N	P=0.278	P=0.486	P=0.373N
LITTER C-A/FISHERS	P=0.376N	P=0.098	P=0.248	P=0.649

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Spleen: Lymphocyte Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	7/50 (14%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	7/25 (28%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/34.27	7/42.26	2/41.02	2/40.33
POLY-3 PERCENT (g)	2.9%	16.6%	4.9%	5%
TERMINAL (d)	0/12 (0%)	4/26 (15%)	1/24 (4%)	2/29 (7%)
FIRST INCIDENCE	614	348	722	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.308N	P=0.058	P=0.562	P=0.557
POLY 1.5	P=0.358N	P=0.044*	P=0.536	P=0.529
POLY 6	P=0.239N	P=0.084	P=0.603	P=0.600
RAO-SCOTT	P=0.370N	P=0.070	P=0.532	P=0.526
LITTER C-A/FISHERS	P=0.418N	P=0.024*	P=0.500	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Spleen: White Pulp Atrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	6/50 (12%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	4/25 (16%)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	2/35.11	4/40.44	6/43.80	2/41.74
POLY-3 PERCENT (g)	5.7%	9.9%	13.7%	4.8%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	189	666	313	4
STATISTICAL TESTS				
POLY 3	P=0.425N	P=0.403	P=0.215	P=0.631N
POLY 1.5	P=0.474N	P=0.368	P=0.176	P=0.661N
POLY 6	P=0.356N	P=0.469	P=0.285	P=0.578N
RAO-SCOTT	P=0.461N	P=0.406	P=0.238	P=0.611N
LITTER C-A/FISHERS	P=0.520N	P=0.334	P=0.209	P=0.695

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Stomach, Forestomach Inflammation Acute				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.54	0/39.69	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.8%	0%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	593	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.127N	P=0.207N	P=0.201N	P=0.204N
POLY 1.5	P=0.120N	P=0.221N	P=0.215N	P=0.219N
POLY 6	P=0.144N	P=0.185N	P=0.179N	P=0.181N
RAO-SCOTT	P=0.217N	P=0.335N	P=0.332N	P=0.333N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Stomach, Forestomach Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	2/34.46	1/40.20	1/41.15	2/41.13
POLY-3 PERCENT (g)	5.8%	2.5%	2.4%	4.9%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	639	576	688	613
STATISTICAL TESTS				
POLY 3	P=0.591	P=0.446N	P=0.438N	P=0.629N
POLY 1.5	P=0.575	P=0.471N	P=0.464N	P=0.661N
POLY 6	P=0.611	P=0.406N	P=0.399N	P=0.576N
RAO-SCOTT	P=0.597	P=0.420N	P=0.414N	P=0.597N
LITTER C-A/FISHERS	P=0.557	P=0.500N	P=0.500N	P=0.695

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Stomach, Forestomach Mineral				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.83	1/40.58	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.7%	2.5%	0%	0%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	551	348	---	---
STATISTICAL TESTS				
POLY 3	P=0.099N	P=0.447N	P=0.202N	P=0.205N
POLY 1.5	P=0.099N	P=0.471N	P=0.216N	P=0.220N
POLY 6	P=0.102N	P=0.409N	P=0.181N	P=0.183N
RAO-SCOTT	P=0.153N	P=0.485N	P=0.279N	P=0.281N
LITTER C-A/FISHERS	P=0.099N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Stomach, Forestomach				
Ulcer				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/34.15	3/41.19	0/40.99	0/40.33
POLY-3 PERCENT (g)	5.9%	7.3%	0%	0%
TERMINAL (d)	1/12 (8%)	0/26 (0%)	0/24 (0%)	0/29 (0%)
FIRST INCIDENCE	652	358	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.056N	P=0.585	P=0.198N	P=0.201N
POLY 1.5	P=0.063N	P=0.546	P=0.214N	P=0.218N
POLY 6	P=0.049N*	P=0.644	P=0.176N	P=0.177N
RAO-SCOTT	P=0.110N	P=0.588	P=0.268N	P=0.270N
LITTER C-A/FISHERS	P=0.070N	P=0.500	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

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Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Stomach, Forestomach: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	3/35.17	0/39.69	1/41.15	1/40.33
POLY-3 PERCENT (g)	8.5%	0%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	0/26 (0%)	0/24 (0%)	1/29 (3%)
FIRST INCIDENCE	482	---	688	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.299N	P=0.097N	P=0.250N	P=0.257N
POLY 1.5	P=0.296N	P=0.107N	P=0.273N	P=0.280N
POLY 6	P=0.308N	P=0.083N	P=0.217N	P=0.222N
RAO-SCOTT	P=0.298N	P=0.133N	P=0.281N	P=0.286N
LITTER C-A/FISHERS	P=0.294N	P=0.117N	P=0.305N	P=0.305N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Stomach, Glandular Mineral				
LESION RATES				
OVERALL (a)	20/50 (40%)	21/50 (42%)	8/50 (16%)	11/50 (22%)
LITTERS (b)	17/25 (68%)	14/25 (56%)	8/25 (32%)	9/25 (36%)
POLY-3 RATE (c)	20/41.87	21/45.55	8/41.23	11/40.92
POLY-3 PERCENT (g)	47.8%	46.1%	19.4%	26.9%
TERMINAL (d)	2/12 (17%)	8/26 (31%)	7/24 (29%)	9/29 (31%)
FIRST INCIDENCE	445	348	666	616
STATISTICAL TESTS				
POLY 3	P=0.008N**	P=0.524N	P=0.004N**	P=0.036N*
POLY 1.5	P=0.007N**	P=0.580N	P=0.004N**	P=0.038N*
POLY 6	P=0.008N**	P=0.438N	P=0.004N**	P=0.031N*
RAO-SCOTT	P=0.016N*	P=0.523N	P=0.010N**	P=0.054N
LITTER C-A/FISHERS	P=0.011N*	P=0.280N	P=0.011N*	P=0.023N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
<hr/>				
Testis				
Polyarteritis Nodosa				
<hr/>				
LESION RATES				
OVERALL (a)	28/50 (56%)	31/50 (62%)	26/50 (52%)	24/49 (49%)
LITTERS (b)	19/25 (76%)	21/25 (84%)	17/25 (68%)	18/25 (72%)
POLY-3 RATE (c)	28/41.69	31/44.48	26/45.31	24/42.12
POLY-3 PERCENT (g)	67.2%	69.7%	57.4%	57%
TERMINAL (d)	6/12 (50%)	18/26 (69%)	10/24 (42%)	17/29 (59%)
FIRST INCIDENCE	493	460	477	613
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.118N	P=0.491	P=0.229N	P=0.221N
POLY 1.5	P=0.139N	P=0.423	P=0.291N	P=0.257N
POLY 6	P=0.101N	P=0.584	P=0.162N	P=0.185N
RAO-SCOTT	P=0.146N	P=0.493	P=0.255N	P=0.249N
LITTER C-A/FISHERS	P=0.306N	P=0.363	P=0.377N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Testis: Germ Cell Degeneration				
LESION RATES				
OVERALL (a)	8/50 (16%)	6/50 (12%)	9/50 (18%)	4/49 (8%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	8/37.40	6/41.65	9/43.31	4/41.01
POLY-3 PERCENT (g)	21.4%	14.4%	20.8%	9.8%
TERMINAL (d)	1/12 (8%)	1/26 (4%)	3/24 (13%)	2/29 (7%)
FIRST INCIDENCE	445	348	373	581
STATISTICAL TESTS				
POLY 3	P=0.149N	P=0.302N	P=0.582N	P=0.130N
POLY 1.5	P=0.173N	P=0.340N	P=0.580	P=0.156N
POLY 6	P=0.121N	P=0.243N	P=0.499N	P=0.096N
RAO-SCOTT	P=0.167N	P=0.312N	P=0.570N	P=0.150N
LITTER C-A/FISHERS	P=0.263N	P=0.371N	P=0.500	P=0.248N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BAT

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	12/50 (24%)	9/50 (18%)	7/50 (14%)
LITTERS (b)	5/25 (20%)	10/25 (40%)	9/25 (36%)	6/25 (24%)
POLY-3 RATE (c)	5/35.99	12/40.28	9/41.36	7/41.17
POLY-3 PERCENT (g)	13.9%	29.8%	21.8%	17%
TERMINAL (d)	0/12 (0%)	9/26 (35%)	6/24 (25%)	5/29 (17%)
FIRST INCIDENCE	571	672	682	602
STATISTICAL TESTS				
POLY 3	P=0.428N	P=0.078	P=0.273	P=0.476
POLY 1.5	P=0.492N	P=0.065	P=0.239	P=0.429
POLY 6	P=0.336N	P=0.109	P=0.333	P=0.551
RAO-SCOTT	P=0.455N	P=0.085	P=0.268	P=0.457
LITTER C-A/FISHERS	P=0.529N	P=0.108	P=0.173	P=0.500

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

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

DOSE	Males			
	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Urinary Bladder Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/34.02	2/40.57	1/40.99	1/40.33
POLY-3 PERCENT (g)	2.9%	4.9%	2.4%	2.5%
TERMINAL (d)	0/12 (0%)	1/26 (4%)	1/24 (4%)	1/29 (3%)
FIRST INCIDENCE	690	358	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.483N	P=0.561	P=0.718N	P=0.722N
POLY 1.5	P=0.504N	P=0.533	P=0.737N	P=0.741N
POLY 6	P=0.451N	P=0.604	P=0.686N	P=0.688N
RAO-SCOTT	P=0.477N	P=0.521	P=0.669N	P=0.672N
LITTER C-A/FISHERS	P=0.531N	P=0.500	P=0.755	P=0.755

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Angiectasis				
LESION RATES				
OVERALL (a)	7/50 (14%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	6/25 (24%)	3/25 (12%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	7/41.95	3/43.65	2/40.39	0/42.04
POLY-3 PERCENT (g)	16.7%	6.9%	5%	0%
TERMINAL (d)	5/30 (17%)	3/33 (9%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	504	730 (T)	716	---
STATISTICAL TESTS				
POLY 3	P=0.004N**	P=0.140N	P=0.086N	P=0.007N**
POLY 1.5	P=0.004N**	P=0.146N	P=0.084N	P=0.007N**
POLY 6	P=0.004N**	P=0.134N	P=0.088N	P=0.007N**
RAO-SCOTT	P=0.014N*	P=0.191N	P=0.131N	P=0.024N*
LITTER C-A/FISHERS	P=0.008N**	P=0.232N	P=0.123N	P=0.011N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	1/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	2/41.16	3/43.79	2/41.09	2/42.60
POLY-3 PERCENT (g)	4.9%	6.9%	4.9%	4.7%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	1/31 (3%)	1/31 (3%)
FIRST INCIDENCE	652	704	456	553
STATISTICAL TESTS				
POLY 3	P=0.515N	P=0.528	P=0.694	P=0.682N
POLY 1.5	P=0.518N	P=0.518	P=0.693	P=0.687N
POLY 6	P=0.513N	P=0.539	P=0.695	P=0.678N
RAO-SCOTT	P=0.507N	P=0.508	P=0.667	P=0.657N
LITTER C-A/FISHERS	P=0.524N	P=0.500	P=0.695	P=0.695

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Extramedullary Hematopoiesis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	1/43.76	2/41.08	0/42.04
POLY-3 PERCENT (g)	0%	2.3%	4.9%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	---	701	463	---
STATISTICAL TESTS				
POLY 3	P=0.609N	P=0.514	P=0.238	(e)
POLY 1.5	P=0.612N	P=0.508	P=0.237	(e)
POLY 6	P=0.606N	P=0.519	P=0.239	(e)
RAO-SCOTT	P=0.627N	P=0.595	P=0.325	(e)
LITTER C-A/FISHERS	P=0.617N	P=0.500	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Hyperplasia Focal				
LESION RATES				
OVERALL (a)	11/50 (22%)	17/50 (34%)	18/50 (36%)	13/50 (26%)
LITTERS (b)	9/25 (36%)	17/25 (68%)	14/25 (56%)	12/25 (48%)
POLY-3 RATE (c)	11/41.47	17/44.03	18/42.06	13/43.70
POLY-3 PERCENT (g)	26.5%	38.6%	42.8%	29.8%
TERMINAL (d)	9/30 (30%)	16/33 (49%)	13/31 (42%)	8/31 (26%)
FIRST INCIDENCE	619	620	456	518
STATISTICAL TESTS				
POLY 3	P=0.532	P=0.166	P=0.087	P=0.464
POLY 1.5	P=0.504	P=0.152	P=0.087	P=0.440
POLY 6	P=0.528N	P=0.179	P=0.090	P=0.491
RAO-SCOTT	P=0.512	P=0.168	P=0.092	P=0.455
LITTER C-A/FISHERS	P=0.446	P=0.023*	P=0.128	P=0.284

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Hypertrophy Focal				
LESION RATES				
OVERALL (a)	18/50 (36%)	23/50 (46%)	16/50 (32%)	21/50 (42%)
LITTERS (b)	16/25 (64%)	18/25 (72%)	13/25 (52%)	17/25 (68%)
POLY-3 RATE (c)	18/43.86	23/46.75	16/42.07	21/44.58
POLY-3 PERCENT (g)	41%	49.2%	38%	47.1%
TERMINAL (d)	12/30 (40%)	15/33 (46%)	12/31 (39%)	13/31 (42%)
FIRST INCIDENCE	344	392	463	478
STATISTICAL TESTS				
POLY 3	P=0.424	P=0.283	P=0.474N	P=0.358
POLY 1.5	P=0.424	P=0.248	P=0.458N	P=0.344
POLY 6	P=0.431	P=0.329	P=0.480N	P=0.381
RAO-SCOTT	P=0.418	P=0.278	P=0.462N	P=0.350
LITTER C-A/FISHERS	P=0.556	P=0.381	P=0.284N	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Karyomegaly				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex				
Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.28	0/43.65	1/40.34	0/42.04
POLY-3 PERCENT (g)	2.4%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	612	---	730 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex Thrombus				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.16	0/43.65	1/40.34	1/42.04
POLY-3 PERCENT (g)	2.4%	0%	2.5%	2.4%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	1/31 (3%)
FIRST INCIDENCE	652	---	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex: Bilateral Hyperplasia Focal				
LESION RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	6/25 (24%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	4/41.08	6/44.03	3/41.09	4/42.04
POLY-3 PERCENT (g)	9.7%	13.6%	7.3%	9.5%
TERMINAL (d)	3/30 (10%)	5/33 (15%)	2/31 (7%)	4/31 (13%)
FIRST INCIDENCE	676	620	456	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.445N	P=0.413	P=0.500N	P=0.631N
POLY 1.5	P=0.447N	P=0.397	P=0.501N	P=0.636N
POLY 6	P=0.446N	P=0.431	P=0.499N	P=0.628N
RAO-SCOTT	P=0.450N	P=0.417	P=0.492N	P=0.618N
LITTER C-A/FISHERS	P=0.573	P=0.232	P=0.666	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Cortex: Bilateral Hypertrophy Focal				
LESION RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	2/25 (8%)	4/25 (16%)
POLY-3 RATE (c)	3/41.25	4/43.93	2/40.82	4/42.56
POLY-3 PERCENT (g)	7.3%	9.1%	4.9%	9.4%
TERMINAL (d)	2/30 (7%)	3/33 (9%)	1/31 (3%)	1/31 (3%)
FIRST INCIDENCE	624	652	585	601
STATISTICAL TESTS				
POLY 3	P=0.487	P=0.534	P=0.505N	P=0.517
POLY 1.5	P=0.484	P=0.521	P=0.504N	P=0.510
POLY 6	P=0.490	P=0.548	P=0.504N	P=0.525
RAO-SCOTT	P=0.490	P=0.537	P=0.506N	P=0.520
LITTER C-A/FISHERS	P=0.418	P=0.666	P=0.500N	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Medulla Hyperplasia Focal				
LESION RATES				
OVERALL (a)	13/50 (26%)	14/50 (28%)	9/50 (18%)	11/50 (22%)
LITTERS (b)	11/25 (44%)	12/25 (48%)	7/25 (28%)	10/25 (40%)
POLY-3 RATE (c)	13/41.84	14/45.32	9/40.80	11/42.90
POLY-3 PERCENT (g)	31.1%	30.9%	22.1%	25.6%
TERMINAL (d)	10/30 (33%)	9/33 (27%)	8/31 (26%)	9/31 (29%)
FIRST INCIDENCE	619	403	592	511
STATISTICAL TESTS				
POLY 3	P=0.276N	P=0.585N	P=0.247N	P=0.376N
POLY 1.5	P=0.276N	P=0.563	P=0.242N	P=0.388N
POLY 6	P=0.281N	P=0.553N	P=0.254N	P=0.370N
RAO-SCOTT	P=0.283N	P=0.577N	P=0.251N	P=0.376N
LITTER C-A/FISHERS	P=0.339N	P=0.500	P=0.189N	P=0.500N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Medulla Thrombus				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.58	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	610	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.119N	P=0.226N	P=0.244N	P=0.234N
POLY 1.5	P=0.117N	P=0.230N	P=0.241N	P=0.235N
POLY 6	P=0.120N	P=0.223N	P=0.246N	P=0.235N
RAO-SCOTT	P=0.224N	P=0.370N	P=0.375N	P=0.373N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Adrenal Medulla: Bilateral Hyperplasia Focal				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	1/41.08	3/43.69	0/40.34	2/42.04
POLY-3 PERCENT (g)	2.4%	6.9%	0%	4.8%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	0/31 (0%)	2/31 (7%)
FIRST INCIDENCE	676	719	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.562	P=0.327	P=0.504N	P=0.508
POLY 1.5	P=0.560	P=0.319	P=0.502N	P=0.505
POLY 6	P=0.564	P=0.335	P=0.505N	P=0.510
RAO-SCOTT	P=0.558	P=0.363	P=0.522N	P=0.523
LITTER C-A/FISHERS	P=0.557	P=0.305	P=0.500N	P=0.500

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Blood Vessel				
Mineral				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.28	0/43.65	0/40.34	0/41.04
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/30 (0%)
FIRST INCIDENCE	612	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Eye: Cornea				
Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Eye: Cornea				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	1/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	---	---	730 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Eye: Lens				
Cataract				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/40.87	1/43.65	2/40.34	1/42.04
POLY-3 PERCENT (g)	0%	2.3%	5%	2.4%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	2/31 (7%)	1/31 (3%)
FIRST INCIDENCE	---	730 (T)	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.375	P=0.513	P=0.234	P=0.506
POLY 1.5	P=0.372	P=0.508	P=0.235	P=0.503
POLY 6	P=0.378	P=0.518	P=0.234	P=0.508
RAO-SCOTT	P=0.389	P=0.534	P=0.264	P=0.521
LITTER C-A/FISHERS	P=0.365	P=0.500	P=0.245	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	29/50 (58%)	25/50 (50%)	23/49 (47%)	23/50 (46%)
LITTERS (b)	22/25 (88%)	21/25 (84%)	17/25 (68%)	17/25 (68%)
POLY-3 RATE (c)	29/45.02	25/45.08	23/42.45	23/45.32
POLY-3 PERCENT (g)	64.4%	55.5%	54.2%	50.8%
TERMINAL (d)	19/30 (63%)	21/33 (64%)	17/31 (55%)	14/31 (45%)
FIRST INCIDENCE	286	539	270	454
STATISTICAL TESTS				
POLY 3	P=0.126N	P=0.251N	P=0.218N	P=0.129N
POLY 1.5	P=0.138N	P=0.263N	P=0.206N	P=0.144N
POLY 6	P=0.112N	P=0.245N	P=0.228N	P=0.115N
RAO-SCOTT	P=0.137N	P=0.258N	P=0.225N	P=0.138N
LITTER C-A/FISHERS	P=0.042N*	P=0.500N	P=0.085N	P=0.085N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Heart				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Heart				
Mineral				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.28	0/43.65	1/39.95	0/42.04
POLY-3 PERCENT (g)	2.4%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	612	---	651	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Heart				
Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Heart Thrombus				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Intestine Large, Cecum Edema				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.25	1/43.68	0/40.34	0/41.31
POLY-3 PERCENT (g)	2.4%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	624	721	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Cecum Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/41.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Cecum Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/41.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Cecum Mineral				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/41.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Cecum: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/49 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/40.87	0/43.65	1/40.34	2/41.77
POLY-3 PERCENT (g)	0%	0%	2.5%	4.8%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	---	---	730 (T)	624
STATISTICAL TESTS				
POLY 3	P=0.069	(e)	P=0.497	P=0.242
POLY 1.5	P=0.068	(e)	P=0.498	P=0.238
POLY 6	P=0.070	(e)	P=0.497	P=0.247
RAO-SCOTT	P=0.129	(e)	P=0.564	P=0.331
LITTER C-A/FISHERS	P=0.069	(e)	P=0.500	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Intestine Large, Colon Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Colon Parasite Metazoan				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	0/40.87	1/43.75	3/40.98	2/42.24
POLY-3 PERCENT (g)	0%	2.3%	7.3%	4.7%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	2/31 (7%)	1/31 (3%)
FIRST INCIDENCE	---	704	519	676
STATISTICAL TESTS				
POLY 3	P=0.169	P=0.514	P=0.118	P=0.244
POLY 1.5	P=0.166	P=0.508	P=0.118	P=0.241
POLY 6	P=0.171	P=0.519	P=0.119	P=0.248
RAO-SCOTT	P=0.202	P=0.545	P=0.158	P=0.287
LITTER C-A/FISHERS	P=0.160	P=0.500	P=0.117	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Colon Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	1/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	---	---	730 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Colon: Lymphoid Tissue Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	3/41.28	1/43.65	1/41.29	2/42.04
POLY-3 PERCENT (g)	7.3%	2.3%	2.4%	4.8%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	0/31 (0%)	2/31 (7%)
FIRST INCIDENCE	676	730 (T)	270	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.481N	P=0.285N	P=0.305N	P=0.492N
POLY 1.5	P=0.479N	P=0.293N	P=0.304N	P=0.495N
POLY 6	P=0.485N	P=0.279N	P=0.306N	P=0.491N
RAO-SCOTT	P=0.476N	P=0.300N	P=0.314N	P=0.490N
LITTER C-A/FISHERS	P=0.474N	P=0.305N	P=0.305N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Large, Rectum Parasite Metazoan				
LESION RATES				
OVERALL (a)	5/50 (10%)	6/50 (12%)	2/50 (4%)	8/50 (16%)
LITTERS (b)	5/25 (20%)	5/25 (20%)	2/25 (8%)	7/25 (28%)
POLY-3 RATE (c)	5/41.08	6/44.21	2/40.81	8/42.85
POLY-3 PERCENT (g)	12.2%	13.6%	4.9%	18.7%
TERMINAL (d)	4/30 (13%)	5/33 (15%)	1/31 (3%)	6/31 (19%)
FIRST INCIDENCE	676	556	588	454
STATISTICAL TESTS				
POLY 3	P=0.257	P=0.552	P=0.217N	P=0.301
POLY 1.5	P=0.256	P=0.532	P=0.218N	P=0.292
POLY 6	P=0.258	P=0.571	P=0.215N	P=0.310
RAO-SCOTT	P=0.285	P=0.552	P=0.241N	P=0.322
LITTER C-A/FISHERS	P=0.318	P=0.637	P=0.209N	P=0.371

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Intestine Small, Ileum Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/41.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Intestine Small, Jejunum: Peyer's Patch Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/41.56	2/44.03	2/40.96	2/42.76
POLY-3 PERCENT (g)	2.4%	4.5%	4.9%	4.7%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	1/31 (3%)	1/31 (3%)
FIRST INCIDENCE	494	620	529	478
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.430	P=0.520	P=0.495	P=0.510
POLY 1.5	P=0.427	P=0.512	P=0.496	P=0.506
POLY 6	P=0.432	P=0.529	P=0.495	P=0.514
RAO-SCOTT	P=0.422	P=0.503	P=0.472	P=0.491
LITTER C-A/FISHERS	P=0.421	P=0.500	P=0.500	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney Infarct				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	3/42.04
POLY-3 PERCENT (g)	0%	0%	0%	7.1%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	3/31 (10%)
FIRST INCIDENCE	---	---	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.011*	(e)	(e)	P=0.123
POLY 1.5	P=0.011*	(e)	(e)	P=0.121
POLY 6	P=0.010**	(e)	(e)	P=0.125
RAO-SCOTT	P=0.052	(e)	(e)	P=0.236
LITTER C-A/FISHERS	P=0.011*	(e)	(e)	P=0.117

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney Mineral				
LESION RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	10/50 (20%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	4/25 (16%)	8/25 (32%)	2/25 (8%)
POLY-3 RATE (c)	4/41.28	4/44.65	10/41.87	2/42.86
POLY-3 PERCENT (g)	9.7%	9%	23.9%	4.7%
TERMINAL (d)	3/30 (10%)	1/33 (3%)	5/31 (16%)	1/31 (3%)
FIRST INCIDENCE	612	556	583	413
STATISTICAL TESTS				
POLY 3	P=0.360N	P=0.600N	P=0.073	P=0.319N
POLY 1.5	P=0.363N	P=0.617N	P=0.072	P=0.326N
POLY 6	P=0.361N	P=0.581N	P=0.078	P=0.315N
RAO-SCOTT	P=0.388N	P=0.603N	P=0.108	P=0.353N
LITTER C-A/FISHERS	P=0.330N	P=0.649	P=0.160	P=0.334N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney				
Nephropathy Chronic Progressive				
LESION RATES				
OVERALL (a)	49/50 (98%)	49/50 (98%)	48/50 (96%)	47/50 (94%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	49/50.00	49/49.96	48/48.95	47/48.05
POLY-3 PERCENT (g)	98%	98.1%	98.1%	97.8%
TERMINAL (d)	29/30 (97%)	33/33 (100%)	31/31 (100%)	31/31 (100%)
FIRST INCIDENCE	286	300	270	200
STATISTICAL TESTS				
POLY 3	P=0.619N	P=0.756	P=0.781	P=0.777N
POLY 1.5	P=0.387N	P=0.758	P=0.679N	P=0.563N
POLY 6	P=0.446	P=0.752	P=0.699	P=0.669
RAO-SCOTT	P=0.601N	P=0.757	P=0.757	P=0.736N
LITTER C-A/FISHERS	(e)	P=1.000	P=1.000	P=1.000

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney: Pelvis Dilation				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	9/50 (18%)	7/50 (14%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	9/25 (36%)	6/25 (24%)
POLY-3 RATE (c)	3/40.87	1/44.24	9/42.53	7/42.13
POLY-3 PERCENT (g)	7.3%	2.3%	21.2%	16.6%
TERMINAL (d)	3/30 (10%)	0/33 (0%)	6/31 (19%)	6/31 (19%)
FIRST INCIDENCE	730 (T)	539	420	708
STATISTICAL TESTS				
POLY 3	P=0.035*	P=0.277N	P=0.066	P=0.167
POLY 1.5	P=0.036*	P=0.288N	P=0.063	P=0.164
POLY 6	P=0.034*	P=0.266N	P=0.070	P=0.172
RAO-SCOTT	P=0.058	P=0.310N	P=0.095	P=0.200
LITTER C-A/FISHERS	P=0.066	P=0.305N	P=0.048*	P=0.232

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney: Renal Tubule Dilation				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/40.87	0/43.65	2/40.34	1/42.04
POLY-3 PERCENT (g)	0%	0%	5%	2.4%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	2/31 (7%)	1/31 (3%)
FIRST INCIDENCE	---	---	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.248	(e)	P=0.234	P=0.506
POLY 1.5	P=0.247	(e)	P=0.235	P=0.503
POLY 6	P=0.249	(e)	P=0.234	P=0.508
RAO-SCOTT	P=0.317	(e)	P=0.321	P=0.583
LITTER C-A/FISHERS	P=0.244	(e)	P=0.245	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney: Renal Tubule Inflammation				
LESION RATES				
OVERALL (a)	8/50 (16%)	9/50 (18%)	6/50 (12%)	19/50 (38%)
LITTERS (b)	8/25 (32%)	9/25 (36%)	5/25 (20%)	14/25 (56%)
POLY-3 RATE (c)	8/41.08	9/44.00	6/40.34	19/42.17
POLY-3 PERCENT (g)	19.5%	20.5%	14.9%	45.1%
TERMINAL (d)	7/30 (23%)	7/33 (21%)	6/31 (19%)	17/31 (55%)
FIRST INCIDENCE	676	645	730 (T)	704
STATISTICAL TESTS				
POLY 3	P=0.002**	P=0.563	P=0.399N	P=0.009**
POLY 1.5	P=0.003**	P=0.538	P=0.395N	P=0.010**
POLY 6	P=0.002**	P=0.589	P=0.401N	P=0.009**
RAO-SCOTT	P=0.006**	P=0.556	P=0.399N	P=0.017*
LITTER C-A/FISHERS	P=0.061	P=0.500	P=0.260N	P=0.077

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Kidney: Renal Tubule Regeneration				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	18/50 (36%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	16/25 (64%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	18/45.24
POLY-3 PERCENT (g)	0%	0%	0%	39.8%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	11/31 (36%)
FIRST INCIDENCE	---	---	---	200
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	P<0.001**
LITTER C-A/FISHERS	P<0.001**	(e)	(e)	P<0.001**

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver Angiectasis				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.08	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	676	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.120N	P=0.224N	P=0.241N	P=0.232N
POLY 1.5	P=0.118N	P=0.229N	P=0.240N	P=0.234N
POLY 6	P=0.122N	P=0.219N	P=0.242N	P=0.230N
RAO-SCOTT	P=0.369N	P=0.549N	P=0.548N	P=0.549N
LITTER C-A/FISHERS	P=0.305N	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver				
Basophilic Focus				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	8/50 (16%)	12/50 (24%)	3/50 (6%)	7/50 (14%)
LITTERS (b)	7/25 (28%)	11/25 (44%)	3/25 (12%)	7/25 (28%)
POLY-3 RATE (c)	8/40.87	12/43.65	3/40.34	7/42.04
POLY-3 PERCENT (g)	19.6%	27.5%	7.4%	16.7%
TERMINAL (d)	8/30 (27%)	12/33 (36%)	3/31 (10%)	7/31 (23%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.217N	P=0.273	P=0.099N	P=0.476N
POLY 1.5	P=0.222N	P=0.255	P=0.100N	P=0.486N
POLY 6	P=0.212N	P=0.294	P=0.097N	P=0.466N
RAO-SCOTT	P=0.230N	P=0.276	P=0.105N	P=0.467N
LITTER C-A/FISHERS	P=0.326N	P=0.189	P=0.145N	P=0.623

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

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 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver Degeneration Cystic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	2/40.95	0/43.65	0/40.34	2/42.24
POLY-3 PERCENT (g)	4.9%	0%	0%	4.7%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	711	---	---	676
STATISTICAL TESTS				
POLY 3	P=0.491	P=0.223N	P=0.240N	P=0.683N
POLY 1.5	P=0.494	P=0.228N	P=0.239N	P=0.688N
POLY 6	P=0.487	P=0.218N	P=0.240N	P=0.679N
RAO-SCOTT	P=0.531	P=0.316N	P=0.323N	P=0.689N
LITTER C-A/FISHERS	P=0.500	P=0.245N	P=0.245N	P=0.695

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver				
Extramedullary Hematopoiesis				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/40.87	2/44.60	0/40.34	1/42.24
POLY-3 PERCENT (g)	2.5%	4.5%	0%	2.4%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	392	---	676
STATISTICAL TESTS				
POLY 3	P=0.497N	P=0.530	P=0.503N	P=0.754N
POLY 1.5	P=0.498N	P=0.519	P=0.502N	P=0.756N
POLY 6	P=0.495N	P=0.542	P=0.503N	P=0.750N
RAO-SCOTT	P=0.504N	P=0.536	P=0.498N	P=0.737N
LITTER C-A/FISHERS	P=0.500N	P=0.500	P=0.500N	P=0.755

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver				
Fatty Change Diffuse				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.71	1/44.24	0/40.34	0/42.04
POLY-3 PERCENT (g)	4.8%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	523	539	---	---
STATISTICAL TESTS				
POLY 3	P=0.104N	P=0.479N	P=0.244N	P=0.235N
POLY 1.5	P=0.103N	P=0.487N	P=0.242N	P=0.236N
POLY 6	P=0.105N	P=0.472N	P=0.247N	P=0.235N
RAO-SCOTT	P=0.165N	P=0.532N	P=0.324N	P=0.321N
LITTER C-A/FISHERS	P=0.099N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	8/50 (16%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	7/25 (28%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/40.87	8/43.98	2/40.34	1/42.04
POLY-3 PERCENT (g)	4.9%	18.2%	5%	2.4%
TERMINAL (d)	2/30 (7%)	7/33 (21%)	2/31 (7%)	1/31 (3%)
FIRST INCIDENCE	730 (T)	638	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.116N	P=0.057	P=0.690	P=0.490N
POLY 1.5	P=0.121N	P=0.052	P=0.691	P=0.494N
POLY 6	P=0.112N	P=0.063	P=0.690	P=0.486N
RAO-SCOTT	P=0.171N	P=0.095	P=0.681	P=0.514N
LITTER C-A/FISHERS	P=0.149N	P=0.069	P=0.695	P=0.500N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver Pigment				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	1/42.13
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	708
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female

Liver: Bile Duct
Cyst

LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	2/40.87	0/43.65	1/40.34	3/43.10
POLY-3 PERCENT (g)	4.9%	0%	2.5%	7%
TERMINAL (d)	2/30 (7%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	511

STATISTICAL TESTS				
POLY 3	P=0.240	P=0.223N	P=0.505N	P=0.524
POLY 1.5	P=0.240	P=0.228N	P=0.503N	P=0.514
POLY 6	P=0.241	P=0.217N	P=0.504N	P=0.536
RAO-SCOTT	P=0.287	P=0.269N	P=0.514N	P=0.535
LITTER C-A/FISHERS	P=0.238	P=0.245N	P=0.500N	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver: Bile Duct Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	5/50 (10%)	2/50 (4%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	5/25 (20%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	1/40.87	5/43.65	2/41.02	4/42.27
POLY-3 PERCENT (g)	2.5%	11.5%	4.9%	9.5%
TERMINAL (d)	1/30 (3%)	5/33 (15%)	1/31 (3%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	730 (T)	500	676
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.286	P=0.116	P=0.501	P=0.188
POLY 1.5	P=0.280	P=0.111	P=0.500	P=0.184
POLY 6	P=0.293	P=0.122	P=0.504	P=0.193
RAO-SCOTT	P=0.311	P=0.161	P=0.518	P=0.233
LITTER C-A/FISHERS	P=0.436	P=0.095	P=0.500	P=0.305

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Liver: Hepatocyte Fatty Change Focal				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	3/40.87	1/44.00	0/40.34	1/42.04
POLY-3 PERCENT (g)	7.3%	2.3%	0%	2.4%
TERMINAL (d)	3/30 (10%)	0/33 (0%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	730 (T)	630	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.207N	P=0.279N	P=0.120N	P=0.295N
POLY 1.5	P=0.204N	P=0.289N	P=0.120N	P=0.299N
POLY 6	P=0.210N	P=0.268N	P=0.120N	P=0.290N
RAO-SCOTT	P=0.240N	P=0.323N	P=0.164N	P=0.334N
LITTER C-A/FISHERS	P=0.197N	P=0.305N	P=0.117N	P=0.305N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver: Hepatocyte Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.26	1/43.75	1/40.34	0/42.04
POLY-3 PERCENT (g)	2.4%	2.3%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	619	704	730 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver: Hepatocyte Vacuolation, Cytoplasmic				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Liver: Oval Cell Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung Congestion				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung Hemorrhage				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung				
Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	38/50 (76%)	36/50 (72%)	34/49 (69%)	30/50 (60%)
LITTERS (b)	24/25 (96%)	21/25 (84%)	21/25 (84%)	20/25 (80%)
POLY-3 RATE (c)	38/48.45	36/47.42	34/43.41	30/45.53
POLY-3 PERCENT (g)	78.4%	75.9%	78.3%	65.9%
TERMINAL (d)	21/30 (70%)	24/33 (73%)	25/31 (81%)	20/31 (65%)
FIRST INCIDENCE	286	392	420	413
STATISTICAL TESTS				
POLY 3	P=0.093N	P=0.480N	P=0.599N	P=0.123N
POLY 1.5	P=0.072N	P=0.463N	P=0.491N	P=0.100N
POLY 6	P=0.127N	P=0.493N	P=0.506	P=0.155N
RAO-SCOTT	P=0.127N	P=0.498N	P=0.598N	P=0.162N
LITTER C-A/FISHERS	P=0.103N	P=0.174N	P=0.174N	P=0.095N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	9/50 (18%)	9/50 (18%)	5/49 (10%)	6/50 (12%)
LITTERS (b)	9/25 (36%)	6/25 (24%)	4/25 (16%)	5/25 (20%)
POLY-3 RATE (c)	9/41.45	9/44.49	5/39.87	6/42.13
POLY-3 PERCENT (g)	21.7%	20.2%	12.5%	14.2%
TERMINAL (d)	8/30 (27%)	8/33 (24%)	4/31 (13%)	5/31 (16%)
FIRST INCIDENCE	550	392	675	708
STATISTICAL TESTS				
POLY 3	P=0.183N	P=0.538N	P=0.211N	P=0.272N
POLY 1.5	P=0.183N	P=0.561N	P=0.210N	P=0.279N
POLY 6	P=0.183N	P=0.517N	P=0.207N	P=0.266N
RAO-SCOTT	P=0.212N	P=0.541N	P=0.239N	P=0.299N
LITTER C-A/FISHERS	P=0.134N	P=0.269N	P=0.098N	P=0.173N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung				
Mineral				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.28	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	612	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/49 (4%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	1/41.29	1/43.65	2/39.66	0/42.04
POLY-3 PERCENT (g)	2.4%	2.3%	5%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	2/31 (7%)	0/31 (0%)
FIRST INCIDENCE	610	730 (T)	730 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.367N	P=0.748N	P=0.486	P=0.496N
POLY 1.5	P=0.368N	P=0.753N	P=0.488	P=0.498N
POLY 6	P=0.368N	P=0.744N	P=0.485	P=0.496N
RAO-SCOTT	P=0.388N	P=0.740N	P=0.492	P=0.512N
LITTER C-A/FISHERS	P=0.365N	P=0.755	P=0.500	P=0.500N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node, Mandibular Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	8/50 (16%)	5/49 (10%)	2/50 (4%)
LITTERS (b)	7/25 (28%)	7/25 (28%)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	7/40.87	8/45.20	5/41.37	2/42.04
POLY-3 PERCENT (g)	17.1%	17.7%	12.1%	4.8%
TERMINAL (d)	7/30 (23%)	4/33 (12%)	2/31 (7%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	392	456	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.037N*	P=0.584	P=0.369N	P=0.070N
POLY 1.5	P=0.038N*	P=0.552	P=0.382N	P=0.074N
POLY 6	P=0.036N*	P=0.604N	P=0.350N	P=0.067N
RAO-SCOTT	P=0.045N*	P=0.576	P=0.368N	P=0.080N
LITTER C-A/FISHERS	P=0.037N*	P=0.623	P=0.371N	P=0.069N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node, Mandibular Hyperplasia Lymphocyte				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/40.87	1/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	7.3%	2.3%	0%	0%
TERMINAL (d)	3/30 (10%)	1/33 (3%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.045N*	P=0.282N	P=0.123N	P=0.113N
POLY 1.5	P=0.045N*	P=0.291N	P=0.124N	P=0.115N
POLY 6	P=0.046N*	P=0.272N	P=0.122N	P=0.111N
RAO-SCOTT	P=0.088N	P=0.350N	P=0.193N	P=0.185N
LITTER C-A/FISHERS	P=0.042N*	P=0.305N	P=0.117N	P=0.117N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node, Mandibular Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/39.66	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female

Lymph Node, Mandibular: Lymphatic Sinus
Dilation

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/40.87	0/43.65	0/39.66	1/42.04
POLY-3 PERCENT (g)	2.5%	0%	0%	2.4%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	730 (T)	---	---	730 (T)

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Lymph Node, Mesenteric Atrophy				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	2/43.93	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	652	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.391N	P=0.253	(e)	(e)
POLY 1.5	P=0.397N	P=0.247	(e)	(e)
POLY 6	P=0.386N	P=0.261	(e)	(e)
RAO-SCOTT	P=0.486N	P=0.387	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node, Mesenteric Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	8/50 (16%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	8/25 (32%)	3/25 (12%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	8/43.08	3/43.65	1/40.98	1/42.24
POLY-3 PERCENT (g)	18.6%	6.9%	2.4%	2.4%
TERMINAL (d)	4/30 (13%)	3/33 (9%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	387	730 (T)	519	676
STATISTICAL TESTS				
POLY 3	P=0.006N**	P=0.093N	P=0.019N*	P=0.016N*
POLY 1.5	P=0.006N**	P=0.095N	P=0.018N*	P=0.016N*
POLY 6	P=0.006N**	P=0.091N	P=0.019N*	P=0.017N*
RAO-SCOTT	P=0.013N*	P=0.118N	P=0.032N*	P=0.029N*
LITTER C-A/FISHERS	P=0.005N**	P=0.085N	P=0.012N*	P=0.012N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node: Lumbar Hemorrhage				
LESION RATES				
OVERALL (a)	0/3 (0%)	1/3 (33%)	0/1 (0%)	0/2 (0%)
LITTERS (b)	0/3 (0%)	1/3 (33%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (c)	0/1.82	1/2.96	0/0.71	0/1.45
POLY-3 PERCENT (g)	0%	33.7%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	701	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node: Lumbar, Lymphatic Sinus Dilation				
LESION RATES				
OVERALL (a)	0/3 (0%)	1/3 (33%)	0/1 (0%)	0/2 (0%)
LITTERS (b)	0/3 (0%)	1/3 (33%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (c)	0/1.82	1/2.85	0/0.71	0/1.45
POLY-3 PERCENT (g)	0%	35.1%	0%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymph Node: Mediastinal Hemorrhage				
LESION RATES				
OVERALL (a)	0/3 (0%)	0/3 (0%)	0/1 (0%)	0/2 (0%)
LITTERS (b)	0/3 (0%)	0/3 (0%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (c)	0/1.82	0/2.85	0/0.71	0/1.45
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	2/41.08	2/43.76	1/40.34	3/42.06
POLY-3 PERCENT (g)	4.9%	4.6%	2.5%	7.1%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	1/31 (3%)	2/31 (7%)
FIRST INCIDENCE	676	701	730 (T)	724
STATISTICAL TESTS				
POLY 3	P=0.402	P=0.671N	P=0.506N	P=0.511
POLY 1.5	P=0.403	P=0.680N	P=0.504N	P=0.507
POLY 6	P=0.401	P=0.663N	P=0.508N	P=0.514
RAO-SCOTT	P=0.401	P=0.652N	P=0.481N	P=0.494
LITTER C-A/FISHERS	P=0.402	P=0.695	P=0.500N	P=0.500

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Mammary Gland: Duct Dilation				
LESION RATES				
OVERALL (a)	4/50 (8%)	9/50 (18%)	2/50 (4%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	9/25 (36%)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	4/42.44	9/43.93	2/40.66	5/42.81
POLY-3 PERCENT (g)	9.4%	20.5%	4.9%	11.7%
TERMINAL (d)	2/30 (7%)	7/33 (21%)	1/31 (3%)	3/31 (10%)
FIRST INCIDENCE	344	686	642	553
STATISTICAL TESTS				
POLY 3	P=0.438N	P=0.126	P=0.357N	P=0.505
POLY 1.5	P=0.440N	P=0.122	P=0.351N	P=0.501
POLY 6	P=0.433N	P=0.134	P=0.358N	P=0.513
RAO-SCOTT	P=0.440N	P=0.132	P=0.345N	P=0.494
LITTER C-A/FISHERS	P=0.433N	P=0.098	P=0.334N	P=0.500

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Mesentery				
Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	0/1 (0%)	0/0 (0%)	0/1 (0%)	1/2 (50%)
LITTERS (b)	0/1 (0%)	0/0 (0%)	0/1 (0%)	1/2 (50%)
POLY-3 RATE (c)	0/1.00	0/0.00	0/0.71	1/2.00
POLY-3 PERCENT (g)	0%	0%	0%	50%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	0/0 (0%)	1/2 (50%)
FIRST INCIDENCE	---	---	---	730 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose				
Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	1/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female

Nose: Glands, Respiratory Epithelium
Dilation

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/41.64	0/43.65	1/40.34	0/42.04
POLY-3 PERCENT (g)	4.8%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	502	---	730 (T)	---

STATISTICAL TESTS

POLY 3	P=0.194N	P=0.227N	P=0.511N	P=0.235N
POLY 1.5	P=0.192N	P=0.231N	P=0.507N	P=0.236N
POLY 6	P=0.196N	P=0.223N	P=0.514N	P=0.234N
RAO-SCOTT	P=0.264N	P=0.326N	P=0.553N	P=0.329N
LITTER C-A/FISHERS	P=0.186N	P=0.245N	P=0.500N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose: Goblet Cell, Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	6/50 (12%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	6/25 (24%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/41.08	6/45.99	2/40.34	1/42.04
POLY-3 PERCENT (g)	7.3%	13.1%	5%	2.4%
TERMINAL (d)	2/30 (7%)	1/33 (3%)	2/31 (7%)	1/31 (3%)
FIRST INCIDENCE	676	300	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.109N	P=0.300	P=0.508N	P=0.296N
POLY 1.5	P=0.110N	P=0.278	P=0.506N	P=0.300N
POLY 6	P=0.109N	P=0.326	P=0.510N	P=0.294N
RAO-SCOTT	P=0.128N	P=0.307	P=0.493N	P=0.295N
LITTER C-A/FISHERS	P=0.106N	P=0.232	P=0.500N	P=0.305N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Nose: Nasopharyngeal Duct, Goblet Cell Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	3/41.08	3/44.31	1/40.34	1/42.04
POLY-3 PERCENT (g)	7.3%	6.8%	2.5%	2.4%
TERMINAL (d)	2/30 (7%)	1/33 (3%)	1/31 (3%)	1/31 (3%)
FIRST INCIDENCE	676	638	730 (T)	730 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.166N	P=0.627N	P=0.311N	P=0.296N
POLY 1.5	P=0.166N	P=0.641N	P=0.309N	P=0.300N
POLY 6	P=0.167N	P=0.612N	P=0.312N	P=0.294N
RAO-SCOTT	P=0.186N	P=0.620N	P=0.321N	P=0.310N
LITTER C-A/FISHERS	P=0.159N	P=0.666	P=0.305N	P=0.305N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	50/50 (100%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	50/50.00	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	30/30 (100%)	33/33 (100%)	31/31 (100%)	31/31 (100%)
FIRST INCIDENCE	286	300	270	200
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
RAO-SCOTT	(e)	(e)	(e)	(e)
LITTER C-A/FISHERS	(e)	(e)	(e)	(e)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose: Olfactory Epithelium Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	1/42.04
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	730 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Nose: Olfactory Epithelium Vacuolation, Cytoplasmic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	1/50 (2%)	12/50 (24%)	10/50 (20%)	8/50 (16%)
LITTERS (b)	1/25 (4%)	9/25 (36%)	9/25 (36%)	7/25 (28%)
POLY-3 RATE (c)	1/40.87	12/45.52	10/42.20	8/42.47
POLY-3 PERCENT (g)	2.5%	26.4%	23.7%	18.8%
TERMINAL (d)	1/30 (3%)	8/33 (24%)	7/31 (23%)	6/31 (19%)
FIRST INCIDENCE	730 (T)	403	456	624
STATISTICAL TESTS				
POLY 3	P=0.133	P=0.002**	P=0.004**	P=0.018*
POLY 1.5	P=0.127	P<0.001**	P=0.004**	P=0.017*
POLY 6	P=0.141	P=0.002**	P=0.005**	P=0.019*
RAO-SCOTT	P=0.155	P=0.008**	P=0.014*	P=0.038*
LITTER C-A/FISHERS	P=0.095	P=0.005**	P=0.005**	P=0.024*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Nose: Respiratory Epithelium Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female

Nose: Respiratory Epithelium
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	2/44.78	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	4.5%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	392	---	---

STATISTICAL TESTS

POLY 3	P=0.389N	P=0.258	(e)	(e)
POLY 1.5	P=0.395N	P=0.250	(e)	(e)
POLY 6	P=0.383N	P=0.266	(e)	(e)
RAO-SCOTT	P=0.484N	P=0.389	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Ovary Cyst				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	2/41.26	0/43.65	0/40.34	3/43.06
POLY-3 PERCENT (g)	4.9%	0%	0%	7%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	619	---	---	413
STATISTICAL TESTS				
POLY 3	P=0.239	P=0.225N	P=0.242N	P=0.519
POLY 1.5	P=0.241	P=0.229N	P=0.240N	P=0.512
POLY 6	P=0.237	P=0.220N	P=0.243N	P=0.526
RAO-SCOTT	P=0.309	P=0.306N	P=0.313N	P=0.547
LITTER C-A/FISHERS	P=0.243	P=0.245N	P=0.245N	P=0.500

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Ovary: Bursa Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	1/40.87	1/43.65	1/40.34	3/42.04
POLY-3 PERCENT (g)	2.5%	2.3%	2.5%	7.1%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	1/31 (3%)	3/31 (10%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.163	P=0.746N	P=0.758	P=0.315
POLY 1.5	P=0.163	P=0.752N	P=0.759	P=0.311
POLY 6	P=0.163	P=0.740N	P=0.758	P=0.319
RAO-SCOTT	P=0.187	P=0.732N	P=0.736	P=0.330
LITTER C-A/FISHERS	P=0.160	P=0.755	P=0.755	P=0.305

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Ovary: Follicle Cyst				
LESION RATES				
OVERALL (a)	5/50 (10%)	8/50 (16%)	4/50 (8%)	7/50 (14%)
LITTERS (b)	5/25 (20%)	6/25 (24%)	4/25 (16%)	7/25 (28%)
POLY-3 RATE (c)	5/41.25	8/44.53	4/40.34	7/42.51
POLY-3 PERCENT (g)	12.1%	18%	9.9%	16.5%
TERMINAL (d)	4/30 (13%)	5/33 (15%)	4/31 (13%)	5/31 (16%)
FIRST INCIDENCE	624	539	730 (T)	658
STATISTICAL TESTS				
POLY 3	P=0.447	P=0.326	P=0.514N	P=0.399
POLY 1.5	P=0.444	P=0.306	P=0.509N	P=0.391
POLY 6	P=0.450	P=0.348	P=0.518N	P=0.409
RAO-SCOTT	P=0.448	P=0.342	P=0.510N	P=0.408
LITTER C-A/FISHERS	P=0.342	P=0.500	P=0.500N	P=0.371

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pancreas				
Polyarteritis Nodosa				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/40.87	0/43.65	1/40.34	2/42.04
POLY-3 PERCENT (g)	2.5%	0%	2.5%	4.8%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	1/31 (3%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.244	P=0.487N	P=0.758	P=0.510
POLY 1.5	P=0.246	P=0.492N	P=0.759	P=0.506
POLY 6	P=0.243	P=0.482N	P=0.758	P=0.514
RAO-SCOTT	P=0.275	P=0.505N	P=0.739	P=0.515
LITTER C-A/FISHERS	P=0.245	P=0.500N	P=0.755	P=0.500

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/40.87	4/44.21	0/40.34	1/42.04
POLY-3 PERCENT (g)	2.5%	9.1%	0%	2.4%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	730 (T)	556	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.325N	P=0.203	P=0.503N	P=0.755N
POLY 1.5	P=0.329N	P=0.193	P=0.502N	P=0.757N
POLY 6	P=0.320N	P=0.213	P=0.503N	P=0.752N
RAO-SCOTT	P=0.403N	P=0.305	P=0.605N	P=0.771N
LITTER C-A/FISHERS	P=0.408N	P=0.305	P=0.500N	P=0.755

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pancreas: Acinus Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	5/50 (10%)	0/50 (0%)	5/50 (10%)
LITTERS (b)	5/25 (20%)	4/25 (16%)	0/25 (0%)	5/25 (20%)
POLY-3 RATE (c)	5/41.47	5/43.96	0/40.34	5/42.70
POLY-3 PERCENT (g)	12.1%	11.4%	0%	11.7%
TERMINAL (d)	2/30 (7%)	4/33 (12%)	0/31 (0%)	4/31 (13%)
FIRST INCIDENCE	624	645	---	511
STATISTICAL TESTS				
POLY 3	P=0.485N	P=0.594N	P=0.032N*	P=0.613N
POLY 1.5	P=0.483N	P=0.607N	P=0.032N*	P=0.619N
POLY 6	P=0.488N	P=0.582N	P=0.033N*	P=0.610N
RAO-SCOTT	P=0.487N	P=0.594N	P=0.056N	P=0.609N
LITTER C-A/FISHERS	P=0.539N	P=0.500N	P=0.025N*	P=0.637

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Parathyroid Gland Hyperplasia Diffuse				
LESION RATES				
OVERALL (a)	3/46 (7%)	7/47 (15%)	8/44 (18%)	8/44 (18%)
LITTERS (b)	2/25 (8%)	7/25 (28%)	8/25 (32%)	8/24 (33%)
POLY-3 RATE (c)	3/38.16	7/41.81	8/36.40	8/36.90
POLY-3 PERCENT (g)	7.9%	16.7%	22%	21.7%
TERMINAL (d)	2/28 (7%)	6/31 (19%)	7/28 (25%)	5/25 (20%)
FIRST INCIDENCE	676	638	592	553
STATISTICAL TESTS				
POLY 3	P=0.082	P=0.195	P=0.080	P=0.083
POLY 1.5	P=0.084	P=0.183	P=0.080	P=0.083
POLY 6	P=0.082	P=0.208	P=0.082	P=0.085
RAO-SCOTT	P=0.079	P=0.184	P=0.075	P=0.079
LITTER C-A/FISHERS	P=0.044*	P=0.069	P=0.037*	P=0.031*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Parathyroid Gland Hyperplasia Focal				
LESION RATES				
OVERALL (a)	2/46 (4%)	1/47 (2%)	4/44 (9%)	3/44 (7%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	4/25 (16%)	3/24 (13%)
POLY-3 RATE (c)	2/37.95	1/41.48	4/36.41	3/36.14
POLY-3 PERCENT (g)	5.3%	2.4%	11%	8.3%
TERMINAL (d)	2/28 (7%)	1/31 (3%)	3/28 (11%)	2/25 (8%)
FIRST INCIDENCE	730 (T)	730 (T)	588	704
STATISTICAL TESTS				
POLY 3	P=0.250	P=0.469N	P=0.317	P=0.478
POLY 1.5	P=0.255	P=0.479N	P=0.314	P=0.477
POLY 6	P=0.244	P=0.459N	P=0.324	P=0.479
RAO-SCOTT	P=0.265	P=0.468N	P=0.322	P=0.471
LITTER C-A/FISHERS	P=0.268	P=0.500N	P=0.334	P=0.480

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pituitary Gland: Pars Distalis Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	1/40.82	0/42.04
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	585	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	19/50 (38%)	18/50 (36%)	17/50 (34%)	21/50 (42%)
LITTERS (b)	17/25 (68%)	16/25 (64%)	14/25 (56%)	16/25 (64%)
POLY-3 RATE (c)	19/42.27	18/45.12	17/42.05	21/44.84
POLY-3 PERCENT (g)	45%	39.9%	40.4%	46.8%
TERMINAL (d)	14/30 (47%)	14/33 (42%)	14/31 (45%)	15/31 (48%)
FIRST INCIDENCE	494	300	463	413
STATISTICAL TESTS				
POLY 3	P=0.402	P=0.396N	P=0.420N	P=0.515
POLY 1.5	P=0.383	P=0.430N	P=0.421N	P=0.479
POLY 6	P=0.417	P=0.367N	P=0.419N	P=0.545
RAO-SCOTT	P=0.408	P=0.388N	P=0.410N	P=0.505
LITTER C-A/FISHERS	P=0.431N	P=0.500N	P=0.280N	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Pituitary Gland: Pars Distalis Hypertrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Skin				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	1/43.96	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	645	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Skin				
Ulcer				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Skin: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
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First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Spleen				
Extramedullary Hematopoiesis				
LESION RATES				
OVERALL (a)	18/50 (36%)	11/50 (22%)	14/50 (28%)	14/50 (28%)
LITTERS (b)	15/25 (60%)	8/25 (32%)	12/25 (48%)	11/25 (44%)
POLY-3 RATE (c)	18/44.78	11/46.30	14/45.28	14/45.30
POLY-3 PERCENT (g)	40.2%	23.8%	30.9%	30.9%
TERMINAL (d)	10/30 (33%)	4/33 (12%)	4/31 (13%)	6/31 (19%)
FIRST INCIDENCE	344	300	420	413
STATISTICAL TESTS				
POLY 3	P=0.345N	P=0.070N	P=0.241N	P=0.240N
POLY 1.5	P=0.347N	P=0.075N	P=0.251N	P=0.247N
POLY 6	P=0.344N	P=0.067N	P=0.229N	P=0.238N
RAO-SCOTT	P=0.350N	P=0.086N	P=0.257N	P=0.256N
LITTER C-A/FISHERS	P=0.317N	P=0.044N*	P=0.285N	P=0.198N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Spleen: Lymphocyte Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	6/25 (24%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	7/43.38	1/43.65	0/40.34	1/42.04
POLY-3 PERCENT (g)	16.1%	2.3%	0%	2.4%
TERMINAL (d)	3/30 (10%)	1/33 (3%)	0/31 (0%)	1/31 (3%)
FIRST INCIDENCE	502	730 (T)	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.011N*	P=0.029N*	P=0.010N**	P=0.033N*
POLY 1.5	P=0.011N*	P=0.029N*	P=0.009N**	P=0.032N*
POLY 6	P=0.011N*	P=0.029N*	P=0.011N*	P=0.034N*
RAO-SCOTT	P=0.043N*	P=0.081N	P=0.041N*	P=0.086N
LITTER C-A/FISHERS	P=0.023N*	P=0.049N*	P=0.011N*	P=0.049N*

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Spleen: White Pulp Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	1/41.72	2/44.07	3/42.90	0/42.04
POLY-3 PERCENT (g)	2.4%	4.5%	7%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	387	645	270	---
STATISTICAL TESTS				
POLY 3	P=0.338N	P=0.519	P=0.315	P=0.499N
POLY 1.5	P=0.338N	P=0.511	P=0.312	P=0.499N
POLY 6	P=0.338N	P=0.529	P=0.318	P=0.497N
RAO-SCOTT	P=0.362N	P=0.535	P=0.346	P=0.522N
LITTER C-A/FISHERS	P=0.335N	P=0.500	P=0.305	P=0.500N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Forestomach Inflammation Acute				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	1/44.00	2/41.57	0/42.04
POLY-3 PERCENT (g)	0%	2.3%	4.8%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	630	463	---
STATISTICAL TESTS				
POLY 3	P=0.609N	P=0.515	P=0.241	(e)
POLY 1.5	P=0.612N	P=0.509	P=0.239	(e)
POLY 6	P=0.606N	P=0.521	P=0.244	(e)
RAO-SCOTT	P=0.626N	P=0.596	P=0.328	(e)
LITTER C-A/FISHERS	P=0.617N	P=0.500	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Forestomach Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.64	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	619	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.119N	P=0.227N	P=0.244N	P=0.235N
POLY 1.5	P=0.117N	P=0.230N	P=0.241N	P=0.235N
POLY 6	P=0.120N	P=0.224N	P=0.247N	P=0.235N
RAO-SCOTT	P=0.225N	P=0.372N	P=0.377N	P=0.374N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Forestomach Mineral				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.26	0/43.65	1/40.80	0/42.04
POLY-3 PERCENT (g)	2.4%	0%	2.5%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	619	---	592	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.26	2/43.80	0/40.34	0/42.04
POLY-3 PERCENT (g)	2.4%	4.6%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	619	701	---	---
STATISTICAL TESTS				
POLY 3	P=0.186N	P=0.521	P=0.505N	P=0.496N
POLY 1.5	P=0.187N	P=0.513	P=0.503N	P=0.498N
POLY 6	P=0.185N	P=0.529	P=0.506N	P=0.495N
RAO-SCOTT	P=0.258N	P=0.565	P=0.569N	P=0.570N
LITTER C-A/FISHERS	P=0.186N	P=0.500	P=0.500N	P=0.500N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Forestomach: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	3/41.64	1/44.00	2/41.08	0/42.04
POLY-3 PERCENT (g)	7.2%	2.3%	4.9%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	1/31 (3%)	0/31 (0%)
FIRST INCIDENCE	619	630	463	---
STATISTICAL TESTS				
POLY 3	P=0.107N	P=0.285N	P=0.506N	P=0.116N
POLY 1.5	P=0.106N	P=0.293N	P=0.504N	P=0.117N
POLY 6	P=0.109N	P=0.279N	P=0.509N	P=0.117N
RAO-SCOTT	P=0.141N	P=0.328N	P=0.519N	P=0.162N
LITTER C-A/FISHERS	P=0.100N	P=0.305N	P=0.500N	P=0.117N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Stomach, Glandular Mineral				
LESION RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	3/41.28	4/44.49	0/40.34	2/42.04
POLY-3 PERCENT (g)	7.3%	9%	0%	4.8%
TERMINAL (d)	2/30 (7%)	3/33 (9%)	0/31 (0%)	2/31 (7%)
FIRST INCIDENCE	612	392	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.264N	P=0.541	P=0.122N	P=0.492N
POLY 1.5	P=0.263N	P=0.526	P=0.121N	P=0.495N
POLY 6	P=0.265N	P=0.554	P=0.123N	P=0.490N
RAO-SCOTT	P=0.337N	P=0.580	P=0.226N	P=0.545N
LITTER C-A/FISHERS	P=0.130N	P=0.666	P=0.117N	P=0.305N

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	14/50 (28%)	13/50 (26%)	9/49 (18%)	12/50 (24%)
LITTERS (b)	12/25 (48%)	10/25 (40%)	7/25 (28%)	12/25 (48%)
POLY-3 RATE (c)	14/42.20	13/44.48	9/40.74	12/43.38
POLY-3 PERCENT (g)	33.2%	29.2%	22.1%	27.7%
TERMINAL (d)	11/30 (37%)	10/33 (30%)	7/31 (23%)	7/31 (23%)
FIRST INCIDENCE	567	620	529	553
STATISTICAL TESTS				
POLY 3	P=0.319N	P=0.434N	P=0.187N	P=0.374N
POLY 1.5	P=0.324N	P=0.459N	P=0.187N	P=0.389N
POLY 6	P=0.314N	P=0.410N	P=0.185N	P=0.359N
RAO-SCOTT	P=0.326N	P=0.436N	P=0.199N	P=0.379N
LITTER C-A/FISHERS	P=0.541	P=0.388N	P=0.122N	P=0.611

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
Time Report Requested: 11:26:05
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Urinary Bladder Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus				
Adenomyosis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	2/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.392N	P=0.252	(e)	(e)
POLY 1.5	P=0.397N	P=0.246	(e)	(e)
POLY 6	P=0.387N	P=0.258	(e)	(e)
RAO-SCOTT	P=0.488N	P=0.388	(e)	(e)
LITTER C-A/FISHERS	P=0.405N	P=0.245	(e)	(e)

Experiment Number: 03038 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Sodium Tungstate Dihydrate
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019
 Time Report Requested: 11:26:05
 First Dose M/F: 01/30/12 / 01/31/12
 Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	3/42.13
POLY-3 PERCENT (g)	0%	0%	0%	7.1%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	708
STATISTICAL TESTS				
POLY 3	P=0.011*	(e)	(e)	P=0.124
POLY 1.5	P=0.011*	(e)	(e)	P=0.122
POLY 6	P=0.010**	(e)	(e)	P=0.126
RAO-SCOTT	P=0.050*	(e)	(e)	P=0.231
LITTER C-A/FISHERS	P=0.011*	(e)	(e)	P=0.117

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Uterus Dilation				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/41.45	0/43.65	2/41.90	2/42.96
POLY-3 PERCENT (g)	2.4%	0%	4.8%	4.7%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	550	---	420	454
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.249	P=0.490N	P=0.504	P=0.513
POLY 1.5	P=0.248	P=0.493N	P=0.502	P=0.508
POLY 6	P=0.250	P=0.486N	P=0.506	P=0.517
RAO-SCOTT	P=0.343	P=0.629N	P=0.579	P=0.589
LITTER C-A/FISHERS	P=0.245	P=0.500N	P=0.755	P=0.500

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
<hr/>				
Uterus				
Hemorrhage				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/40.87	0/43.65	2/41.20	0/42.04
POLY-3 PERCENT (g)	0%	0%	4.9%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	420	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.601	(e)	P=0.239	(e)
POLY 1.5	P=0.599	(e)	P=0.238	(e)
POLY 6	P=0.603	(e)	P=0.240	(e)
RAO-SCOTT	P=0.643	(e)	P=0.391	(e)
LITTER C-A/FISHERS	P=0.595	(e)	P=0.245	(e)

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus				
Hyperplasia Atypical				
LESION RATES				
OVERALL (a)	4/50 (8%)	7/50 (14%)	19/50 (38%)	8/50 (16%)
LITTERS (b)	4/25 (16%)	7/25 (28%)	15/25 (60%)	7/25 (28%)
POLY-3 RATE (c)	4/41.80	7/43.88	19/41.16	8/42.30
POLY-3 PERCENT (g)	9.6%	16%	46.2%	18.9%
TERMINAL (d)	2/30 (7%)	5/33 (15%)	17/31 (55%)	6/31 (19%)
FIRST INCIDENCE	387	701	529	676
STATISTICAL TESTS				
POLY 3	P=0.106	P=0.288	P<0.001**	P=0.180
POLY 1.5	P=0.108	P=0.277	P<0.001**	P=0.178
POLY 6	P=0.105	P=0.302	P<0.001**	P=0.183
RAO-SCOTT	P=0.123	P=0.288	P<0.001**	P=0.184
LITTER C-A/FISHERS	P=0.184	P=0.248	P=0.002**	P=0.248

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:26:05

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/40.87	0/43.65	0/40.34	2/42.04
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/31 (0%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.045*	(e)	(e)	P=0.243
POLY 1.5	P=0.045*	(e)	(e)	P=0.241
POLY 6	P=0.044*	(e)	(e)	P=0.245
RAO-SCOTT	P=0.128	(e)	(e)	P=0.376
LITTER C-A/FISHERS	P=0.045*	(e)	(e)	P=0.245

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	0/40.87	0/43.65	4/41.90	3/43.54
POLY-3 PERCENT (g)	0%	0%	9.6%	6.9%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	2/31 (7%)	0/31 (0%)
FIRST INCIDENCE	---	---	420	511
STATISTICAL TESTS				
POLY 3	P=0.043*	(e)	P=0.063	P=0.130
POLY 1.5	P=0.041*	(e)	P=0.062	P=0.125
POLY 6	P=0.045*	(e)	P=0.064	P=0.135
RAO-SCOTT	P=0.112	(e)	P=0.159	P=0.253
LITTER C-A/FISHERS	P=0.032*	(e)	P=0.117	P=0.117

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus				
Squamous Metaplasia				
LESION RATES				
OVERALL (a)	29/50 (58%)	23/50 (46%)	32/50 (64%)	26/50 (52%)
LITTERS (b)	21/25 (84%)	18/25 (72%)	19/25 (76%)	17/25 (68%)
POLY-3 RATE (c)	29/45.95	23/45.29	32/44.17	26/45.68
POLY-3 PERCENT (g)	63.1%	50.8%	72.5%	56.9%
TERMINAL (d)	18/30 (60%)	17/33 (52%)	25/31 (81%)	17/31 (55%)
FIRST INCIDENCE	344	539	420	413
STATISTICAL TESTS				
POLY 3	P=0.490N	P=0.159N	P=0.226	P=0.345N
POLY 1.5	P=0.492N	P=0.161N	P=0.261	P=0.350N
POLY 6	P=0.485N	P=0.151N	P=0.197	P=0.335N
RAO-SCOTT	P=0.495N	P=0.180N	P=0.249	P=0.358N
LITTER C-A/FISHERS	P=0.165N	P=0.248N	P=0.363N	P=0.160N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

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First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus: Cervix, Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/40.87	0/43.65	0/40.34	0/42.04
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	2/30 (7%)	0/33 (0%)	0/31 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.120N	P=0.223N	P=0.240N	P=0.231N
POLY 1.5	P=0.118N	P=0.228N	P=0.239N	P=0.233N
POLY 6	P=0.123N	P=0.217N	P=0.239N	P=0.228N
RAO-SCOTT	P=0.224N	P=0.366N	P=0.371N	P=0.368N
LITTER C-A/FISHERS	P=0.114N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Lab: BAT

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

DOSE	Females			
	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Uterus: Endometrium Hyperplasia Cystic				
LESION RATES				
OVERALL (a)	32/50 (64%)	25/50 (50%)	34/50 (68%)	27/50 (54%)
LITTERS (b)	21/25 (84%)	20/25 (80%)	22/25 (88%)	21/25 (84%)
POLY-3 RATE (c)	32/47.06	25/44.73	34/44.93	27/43.61
POLY-3 PERCENT (g)	68%	55.9%	75.7%	61.9%
TERMINAL (d)	19/30 (63%)	19/33 (58%)	26/31 (84%)	21/31 (68%)
FIRST INCIDENCE	344	638	288	553
STATISTICAL TESTS				
POLY 3	P=0.489N	P=0.158N	P=0.271	P=0.346N
POLY 1.5	P=0.427N	P=0.139N	P=0.324	P=0.290N
POLY 6	P=0.529	P=0.174N	P=0.221	P=0.408N
RAO-SCOTT	P=0.487N	P=0.163N	P=0.277	P=0.346N
LITTER C-A/FISHERS	P=0.500	P=0.500N	P=0.500	P=0.649

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Sodium Tungstate Dihydrate

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Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of litters with tumor-bearing animals/number of litters examined at site
- (c) 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.
- (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 Rao-Scott statistic performs the Poly-3 test with an adjustment for within-litter correlation.
The Litter C-A/Fishers statistic compares directly the litter incidence rates.

*** END OF REPORT ***