

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Sodium Tungstate Dihydrate  
**CAS Number:** 10213-10-2

**Date Report Requested:** 03/04/2019  
**Time Report Requested:** 11:13:12  
**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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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Medulla

Brain

Heart

Islets, Pancreatic

Kidney

Liver

Lung

Pancreas

Parathyroid Gland

Pituitary Gland

Thyroid Gland

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF SODIUM TUNGSTATE DIHYDRATE**

**FEMALE RATS**

**Organ**

Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

Thyroid Gland: C-Cell

Uterus

All Organs

**Morphology**

Fibroadenoma

Fibroma, Fibroadenoma or Adenoma

Fibroma, Fibroadenoma, Carcinoma, or Adenoma

Adenoma

Adenoma

Carcinoma or Adenoma

Carcinoma

Benign Tumors

Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                           | Males       |              |              |               |
|--------------------------------|-------------|--------------|--------------|---------------|
|                                | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Adrenal Medulla</b>         |             |              |              |               |
| <b>Pheochromocytoma Benign</b> |             |              |              |               |
| <hr/>                          |             |              |              |               |
| <b>TUMOR RATES</b>             |             |              |              |               |
| OVERALL (a)                    | 10/50 (20%) | 8/50 (16%)   | 12/50 (24%)  | 8/50 (16%)    |
| LITTERS (b)                    | 10/25 (40%) | 7/25 (28%)   | 10/25 (40%)  | 7/25 (28%)    |
| POLY-3 RATE (c)                | 10/35.98    | 8/41.49      | 12/42.38     | 8/40.97       |
| POLY-3 PERCENT (g)             | 27.8%       | 19.3%        | 28.3%        | 19.5%         |
| TERMINAL (d)                   | 3/12 (25%)  | 1/26 (4%)    | 7/24 (29%)   | 6/29 (21%)    |
| FIRST INCIDENCE                | 588         | 576          | 517          | 616           |
| <hr/>                          |             |              |              |               |
| <b>STATISTICAL TESTS</b>       |             |              |              |               |
| POLY 3                         | P=0.337N    | P=0.268N     | P=0.580      | P=0.278N      |
| POLY 1.5                       | P=0.376N    | P=0.326N     | P=0.508      | P=0.333N      |
| POLY 6                         | P=0.291N    | P=0.187N     | P=0.520N     | P=0.203N      |
| RAO-SCOTT                      | P=0.325N    | P=0.259N     | P=0.560      | P=0.269N      |
| LITTER C-A/FISHERS             | P=0.309N    | P=0.276N     | P=0.613      | P=0.276N      |

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                              | Males      |              |              |               |
|-----------------------------------|------------|--------------|--------------|---------------|
|                                   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Adrenal Medulla</b>            |            |              |              |               |
| <b>Pheochromocytoma Malignant</b> |            |              |              |               |
| <b>TUMOR RATES</b>                |            |              |              |               |
| OVERALL (a)                       | 2/50 (4%)  | 2/50 (4%)    | 2/50 (4%)    | 3/50 (6%)     |
| LITTERS (b)                       | 2/25 (8%)  | 2/25 (8%)    | 2/25 (8%)    | 3/25 (12%)    |
| POLY-3 RATE (c)                   | 2/34.07    | 2/39.69      | 2/41.31      | 3/40.96       |
| POLY-3 PERCENT (g)                | 5.9%       | 5%           | 4.8%         | 7.3%          |
| TERMINAL (d)                      | 1/12 (8%)  | 2/26 (8%)    | 1/24 (4%)    | 1/29 (3%)     |
| FIRST INCIDENCE                   | 677        | 729 (T)      | 642          | 602           |
| <b>STATISTICAL TESTS</b>          |            |              |              |               |
| POLY 3                            | P=0.451    | P=0.638N     | P=0.623N     | P=0.583       |
| POLY 1.5                          | P=0.421    | P=0.665N     | P=0.654N     | P=0.543       |
| POLY 6                            | P=0.494    | P=0.591N     | P=0.571N     | P=0.646       |
| RAO-SCOTT                         | P=0.443    | P=0.592N     | P=0.579N     | P=0.542       |
| LITTER C-A/FISHERS                | P=0.384    | P=0.695      | P=0.695      | P=0.500       |

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---

| DOSE   | Males       |              |              |               |
|--|-------------|--------------|--------------|---------------|
|  | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Adrenal Medulla</b>                                   |             |              |              |               |
| <b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b> |             |              |              |               |
| <b>TUMOR RATES</b>                                       |             |              |              |               |
| <b>OVERALL (a)</b>                                       | 12/50 (24%) | 10/50 (20%)  | 13/50 (26%)  | 12/50 (24%)   |
| <b>LITTERS (b)</b>                                       | 12/25 (48%) | 9/25 (36%)   | 10/25 (40%)  | 10/25 (40%)   |
| <b>POLY-3 RATE (c)</b>                                   | 12/36.18    | 10/41.49     | 13/42.70     | 12/41.59      |
| <b>POLY-3 PERCENT (g)</b>                                | 33.2%       | 24.1%        | 30.5%        | 28.9%         |
| <b>TERMINAL (d)</b>                                      | 4/12 (33%)  | 3/26 (12%)   | 7/24 (29%)   | 8/29 (28%)    |
| <b>FIRST INCIDENCE</b>                                   | 588         | 576          | 517          | 602           |
| <b>STATISTICAL TESTS</b>                                 |             |              |              |               |
| <b>POLY 3</b>  | P=0.513N    | P=0.261N     | P=0.494N     | P=0.434N      |
| <b>POLY 1.5</b>  | P=0.532     | P=0.325N     | P=0.572N     | P=0.511N      |
| <b>POLY 6</b>  | P=0.450N    | P=0.174N     | P=0.379N     | P=0.320N      |
| <b>RAO-SCOTT</b>   | P=0.491N    | P=0.259N     | P=0.479N     | P=0.422N      |
| <b>LITTER C-A/FISHERS</b>                                | P=0.405N    | P=0.284N     | P=0.388N     | P=0.388N      |

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TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Brain</b>             |            |              |              |               |
| <b>Glioma Malignant</b>  |            |              |              |               |
| <hr/>                    |            |              |              |               |
| <b>TUMOR RATES</b>       |            |              |              |               |
| OVERALL (a)              | 2/50 (4%)  | 0/50 (0%)    | 0/50 (0%)    | 1/50 (2%)     |
| LITTERS (b)              | 2/25 (8%)  | 0/25 (0%)    | 0/25 (0%)    | 1/25 (4%)     |
| POLY-3 RATE (c)          | 2/34.38    | 0/39.69      | 0/40.99      | 1/40.86       |
| POLY-3 PERCENT (g)       | 5.8%       | 0%           | 0%           | 2.5%          |
| TERMINAL (d)             | 1/12 (8%)  | 0/26 (0%)    | 0/24 (0%)    | 0/29 (0%)     |
| FIRST INCIDENCE          | 574        | ---          | ---          | 566           |
| <hr/>                    |            |              |              |               |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| POLY 3                   | P=0.483N   | P=0.206N     | P=0.200N     | P=0.440N      |
| POLY 1.5                 | P=0.470N   | P=0.220N     | P=0.215N     | P=0.469N      |
| POLY 6                   | P=0.509N   | P=0.183N     | P=0.177N     | P=0.394N      |
| RAO-SCOTT                | P=0.471N   | P=0.279N     | P=0.275N     | P=0.478N      |
| LITTER C-A/FISHERS       | P=0.461N   | P=0.245N     | P=0.245N     | P=0.500N      |

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                                      | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Brain</b>                              |            |              |              |               |
| Oligodendroglioma, Glioma, or Astrocytoma |            |              |              |               |
| <b>TUMOR RATES</b>                        |            |              |              |               |
| 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)                           | 2/34.38    | 0/39.69      | 0/40.99      | 2/41.65       |
| POLY-3 PERCENT (g)                        | 5.8%       | 0%           | 0%           | 4.8%          |
| TERMINAL (d)                              | 1/12 (8%)  | 0/26 (0%)    | 0/24 (0%)    | 0/29 (0%)     |
| FIRST INCIDENCE                           | 574        | ---          | ---          | 436           |
| <b>STATISTICAL TESTS</b>                  |            |              |              |               |
| POLY 3                                    | P=0.504    | P=0.206N     | P=0.200N     | P=0.623N      |
| POLY 1.5                                  | P=0.504    | P=0.220N     | P=0.215N     | P=0.657N      |
| POLY 6                                    | P=0.497    | P=0.183N     | P=0.177N     | P=0.568N      |
| RAO-SCOTT                                 | P=0.568    | P=0.271N     | P=0.267N     | P=0.622N      |
| LITTER C-A/FISHERS                        | P=0.500    | P=0.245N     | P=0.245N     | P=0.695       |

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TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <hr/>                    |            |              |              |               |
| Heart                    |            |              |              |               |
| Schwannoma Malignant     |            |              |              |               |
| <hr/>                    |            |              |              |               |
| <b>TUMOR RATES</b>       |            |              |              |               |
| 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      | 1/41.33       |
| POLY-3 PERCENT (g)       | 0%         | 0%           | 0%           | 2.4%          |
| TERMINAL (d)             | 0/12 (0%)  | 0/26 (0%)    | 0/24 (0%)    | 0/29 (0%)     |
| FIRST INCIDENCE          | ---        | ---          | ---          | 4             |
| <hr/>                    |            |              |              |               |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| 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 PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                              | Males      |              |              |               |
|-----------------------------------|------------|--------------|--------------|---------------|
|                                   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Islets, Pancreatic Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                |            |              |              |               |
| OVERALL (a)                       | 2/50 (4%)  | 4/50 (8%)    | 3/50 (6%)    | 6/50 (12%)    |
| LITTERS (b)                       | 1/25 (4%)  | 4/25 (16%)   | 3/25 (12%)   | 4/25 (16%)    |
| POLY-3 RATE (c)                   | 2/33.90    | 4/39.69      | 3/41.03      | 6/40.33       |
| POLY-3 PERCENT (g)                | 5.9%       | 10.1%        | 7.3%         | 14.9%         |
| TERMINAL (d)                      | 1/12 (8%)  | 4/26 (15%)   | 2/24 (8%)    | 6/29 (21%)    |
| FIRST INCIDENCE                   | 722        | 729 (T)      | 719          | 729 (T)       |
| <b>STATISTICAL TESTS</b>          |            |              |              |               |
| POLY 3                            | P=0.154    | P=0.411      | P=0.586      | P=0.193       |
| POLY 1.5                          | P=0.132    | P=0.375      | P=0.549      | P=0.162       |
| POLY 6                            | P=0.191    | P=0.475      | P=0.644      | P=0.255       |
| RAO-SCOTT                         | P=0.197    | P=0.428      | P=0.580      | P=0.236       |
| LITTER C-A/FISHERS                | P=0.203    | P=0.174      | P=0.305      | P=0.174       |

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                                | Males      |              |              |               |
|-------------------------------------|------------|--------------|--------------|---------------|
|                                     | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Islets, Pancreatic Carcinoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                  |            |              |              |               |
| OVERALL (a)                         | 1/50 (2%)  | 3/50 (6%)    | 4/50 (8%)    | 0/50 (0%)     |
| LITTERS (b)                         | 1/25 (4%)  | 3/25 (12%)   | 4/25 (16%)   | 0/25 (0%)     |
| POLY-3 RATE (c)                     | 1/34.40    | 3/39.69      | 4/41.11      | 0/40.33       |
| POLY-3 PERCENT (g)                  | 2.9%       | 7.6%         | 9.7%         | 0%            |
| TERMINAL (d)                        | 0/12 (0%)  | 3/26 (12%)   | 3/24 (13%)   | 0/29 (0%)     |
| FIRST INCIDENCE                     | 568        | 729 (T)      | 698          | ---           |
| <b>STATISTICAL TESTS</b>            |            |              |              |               |
| POLY 3                              | P=0.235N   | P=0.357      | P=0.236      | P=0.468N      |
| POLY 1.5                            | P=0.271N   | P=0.332      | P=0.211      | P=0.484N      |
| POLY 6                              | P=0.186N   | P=0.402      | P=0.282      | P=0.443N      |
| RAO-SCOTT                           | P=0.286N   | P=0.358      | P=0.251      | P=0.446N      |
| LITTER C-A/FISHERS                  | P=0.309N   | P=0.305      | P=0.174      | 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 |
| <b>Islets, Pancreatic<br/>Carcinoma or Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                                 |            |              |              |               |
| OVERALL (a)  | 3/50 (6%)  | 6/50 (12%)   | 7/50 (14%)   | 6/50 (12%)    |
| LITTERS (b)  | 2/25 (8%)  | 6/25 (24%)   | 6/25 (24%)   | 4/25 (16%)    |
| POLY-3 RATE (c)                                    | 3/34.42    | 6/39.69      | 7/41.15      | 6/40.33       |
| POLY-3 PERCENT (g)                                 | 8.7%       | 15.1%        | 17%          | 14.9%         |
| TERMINAL (d)                                       | 1/12 (8%)  | 6/26 (23%)   | 5/24 (21%)   | 6/29 (21%)    |
| FIRST INCIDENCE                                    | 568        | 729 (T)      | 698          | 729 (T)       |
| <b>STATISTICAL TESTS</b>                           |            |              |              |               |
| POLY 3   | P=0.344    | P=0.314      | P=0.236      | P=0.323       |
| POLY 1.5   | P=0.295    | P=0.278      | P=0.200      | P=0.282       |
| POLY 6   | P=0.424    | P=0.381      | P=0.303      | P=0.398       |
| RAO-SCOTT  | P=0.344    | P=0.329      | P=0.259      | P=0.337       |
| LITTER C-A/FISHERS                                 | P=0.396    | P=0.123      | P=0.123      | P=0.334       |

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TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                    | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Kidney: Renal Tubule<br/>Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                      |            |              |              |               |
| 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)                         | 2/34.13    | 1/39.93      | 0/40.99      | 1/40.33       |
| POLY-3 PERCENT (g)                      | 5.9%       | 2.5%         | 0%           | 2.5%          |
| TERMINAL (d)                            | 1/12 (8%)  | 0/26 (0%)    | 0/24 (0%)    | 1/29 (3%)     |
| FIRST INCIDENCE                         | 659        | 666          | ---          | 729 (T)       |
| <b>STATISTICAL TESTS</b>                |            |              |              |               |
| POLY 3                                  | P=0.363N   | P=0.445N     | P=0.198N     | P=0.442N      |
| POLY 1.5                                | P=0.363N   | P=0.471N     | P=0.214N     | P=0.470N      |
| POLY 6                                  | P=0.369N   | P=0.402N     | P=0.175N     | P=0.397N      |
| RAO-SCOTT                               | P=0.353N   | P=0.441N     | P=0.220N     | P=0.439N      |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <hr/>                    |            |              |              |               |
| Liver                    |            |              |              |               |
| Hepatocellular Adenoma   |            |              |              |               |
| <hr/>                    |            |              |              |               |
| <b>TUMOR RATES</b>       |            |              |              |               |
| OVERALL (a)              | 1/50 (2%)  | 0/50 (0%)    | 0/50 (0%)    | 1/50 (2%)     |
| LITTERS (b)              | 1/25 (4%)  | 0/25 (0%)    | 0/25 (0%)    | 1/25 (4%)     |
| POLY-3 RATE (c)          | 1/34.11    | 0/39.69      | 0/40.99      | 1/40.33       |
| POLY-3 PERCENT (g)       | 2.9%       | 0%           | 0%           | 2.5%          |
| TERMINAL (d)             | 0/12 (0%)  | 0/26 (0%)    | 0/24 (0%)    | 1/29 (3%)     |
| FIRST INCIDENCE          | 666        | ---          | ---          | 729 (T)       |
| <hr/>                    |            |              |              |               |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| 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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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Lung</b>   |            |              |              |               |
| <b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>  |            |              |              |               |
| OVERALL (a)   | 2/50 (4%)  | 1/50 (2%)    | 0/50 (0%)    | 2/50 (4%)     |
| LITTERS (b)   | 2/25 (8%)  | 1/25 (4%)    | 0/25 (0%)    | 2/25 (8%)     |
| POLY-3 RATE (c)   | 2/34.11    | 1/39.69      | 0/40.99      | 2/40.33       |
| POLY-3 PERCENT (g)  | 5.9%       | 2.5%         | 0%           | 5%            |
| TERMINAL (d)  | 1/12 (8%)  | 1/26 (4%)    | 0/24 (0%)    | 2/29 (7%)     |
| FIRST INCIDENCE   | 666        | 729 (T)      | ---          | 729 (T)       |
| <b>STATISTICAL TESTS</b>  |            |              |              |               |
| POLY 3  | P=0.611    | P=0.447N     | P=0.198N     | P=0.633N      |
| POLY 1.5  | P=0.603    | P=0.472N     | P=0.214N     | P=0.663N      |
| POLY 6  | P=0.618    | P=0.406N     | P=0.175N     | P=0.581N      |
| RAO-SCOTT   | P=0.600N   | P=0.443N     | P=0.221N     | P=0.611N      |
| LITTER C-A/FISHERS  | P=0.592    | P=0.500N     | P=0.245N     | P=0.695       |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                         | Males      |              |              |               |
|------------------------------|------------|--------------|--------------|---------------|
|                              | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>           | #          | #            | #            | #             |
| 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              | ---        | ---          | ---          | ---           |
| <b>STATISTICAL TESTS</b>     |            |              |              |               |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                           | Males      |              |              |               |
|--------------------------------|------------|--------------|--------------|---------------|
|                                | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland Carcinoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>             | #          | #            | #            | #             |
| 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)       |
| <b>STATISTICAL TESTS</b>       |            |              |              |               |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland<br/>Carcinoma or Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                            | #          | #            | #            | #             |
| 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)       |
| <b>STATISTICAL TESTS</b>                      |            |              |              |               |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

| DOSE                                  | Males      |              |              |               |
|---------------------------------------|------------|--------------|--------------|---------------|
|                                       | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland<br/>Fibroadenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                    | #          | #            | #            | #             |
| OVERALL (a)                           | 0/50 (0%)  | 2/50 (4%)    | 1/50 (2%)    | 0/50 (0%)     |
| LITTERS (b)                           | 0/25 (0%)  | 2/25 (8%)    | 1/25 (4%)    | 0/25 (0%)     |
| POLY-3 RATE (c)                       | 0/33.87    | 2/39.69      | 1/41.40      | 0/40.33       |
| POLY-3 PERCENT (g)                    | 0%         | 5%           | 2.4%         | 0%            |
| TERMINAL (d)                          | 0/12 (0%)  | 2/26 (8%)    | 0/24 (0%)    | 0/29 (0%)     |
| FIRST INCIDENCE                       | ---        | 729 (T)      | 611          | ---           |
| <b>STATISTICAL TESTS</b>              |            |              |              |               |
| POLY 3                                | P=0.390N   | P=0.274      | P=0.540      | (e)           |
| POLY 1.5                              | P=0.423N   | P=0.256      | P=0.523      | (e)           |
| POLY 6                                | P=0.340N   | P=0.306      | P=0.567      | (e)           |
| RAO-SCOTT                             | P=0.456N   | P=0.314      | P=0.552      | (e)           |
| LITTER C-A/FISHERS                    | P=0.461N   | P=0.245      | P=0.500      | (e)           |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                    | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland</b>                    |            |              |              |               |
| <b>Fibroma, Fibroadenoma or Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                      | #          | #            | #            | #             |
| OVERALL (a)                             | 0/50 (0%)  | 2/50 (4%)    | 1/50 (2%)    | 0/50 (0%)     |
| LITTERS (b)                             | 0/25 (0%)  | 2/25 (8%)    | 1/25 (4%)    | 0/25 (0%)     |
| POLY-3 RATE (c)                         | 0/33.87    | 2/39.69      | 1/41.40      | 0/40.33       |
| POLY-3 PERCENT (g)                      | 0%         | 5%           | 2.4%         | 0%            |
| TERMINAL (d)                            | 0/12 (0%)  | 2/26 (8%)    | 0/24 (0%)    | 0/29 (0%)     |
| FIRST INCIDENCE                         | ---        | 729 (T)      | 611          | ---           |
| <b>STATISTICAL TESTS</b>                |            |              |              |               |
| POLY 3                                  | P=0.390N   | P=0.274      | P=0.540      | (e)           |
| POLY 1.5                                | P=0.423N   | P=0.256      | P=0.523      | (e)           |
| POLY 6                                  | P=0.340N   | P=0.306      | P=0.567      | (e)           |
| RAO-SCOTT                               | P=0.456N   | P=0.314      | P=0.552      | (e)           |
| LITTER C-A/FISHERS                      | P=0.461N   | P=0.245      | P=0.500      | (e)           |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Males      |              |              |               |
|--|------------|--------------|--------------|---------------|
|  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Mammary Gland</b><br>Fibroma, Fibroadenoma, Carcinoma, or Adenoma |            |              |              |               |
| <b>TUMOR RATES</b>   | #          | #            | #            | #             |
| 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    | 2/39.69      | 1/41.40      | 1/40.33       |
| POLY-3 PERCENT (g)   | 0%         | 5%           | 2.4%         | 2.5%          |
| TERMINAL (d)   | 0/12 (0%)  | 2/26 (8%)    | 0/24 (0%)    | 1/29 (3%)     |
| FIRST INCIDENCE  | ---        | 729 (T)      | 611          | 729 (T)       |
| <b>STATISTICAL TESTS</b>   |            |              |              |               |
| POLY 3   | P=0.581    | P=0.274      | P=0.540      | P=0.535       |
| POLY 1.5   | P=0.542    | P=0.256      | P=0.523      | P=0.518       |
| POLY 6   | P=0.639    | P=0.306      | P=0.567      | P=0.562       |
| RAO-SCOTT  | P=0.536    | P=0.266      | P=0.499      | P=0.491       |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                        | Males       |              |              |               |
|-----------------------------|-------------|--------------|--------------|---------------|
|                             | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Pancreas<br/>Adenoma</b> |             |              |              |               |
| <b>TUMOR RATES</b>          |             |              |              |               |
| OVERALL (a)                 | 14/50 (28%) | 20/50 (40%)  | 20/50 (40%)  | 16/50 (32%)   |
| LITTERS (b)                 | 12/25 (48%) | 16/25 (64%)  | 15/25 (60%)  | 11/25 (44%)   |
| POLY-3 RATE (c)             | 14/35.80    | 20/41.01     | 20/42.39     | 16/40.97      |
| POLY-3 PERCENT (g)          | 39.1%       | 48.8%        | 47.2%        | 39.1%         |
| TERMINAL (d)                | 6/12 (50%)  | 16/26 (62%)  | 12/24 (50%)  | 14/29 (48%)   |
| FIRST INCIDENCE             | 600         | 557          | 627          | 616           |
| <b>STATISTICAL TESTS</b>    |             |              |              |               |
| POLY 3                      | P=0.409N    | P=0.259      | P=0.307      | P=0.593N      |
| POLY 1.5                    | P=0.499N    | P=0.197      | P=0.227      | P=0.506       |
| POLY 6                      | P=0.287N    | P=0.388      | P=0.462      | P=0.457N      |
| RAO-SCOTT                   | P=0.431N    | P=0.268      | P=0.312      | P=0.573N      |
| LITTER C-A/FISHERS          | P=0.317N    | P=0.197      | P=0.285      | P=0.500N      |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <hr/>                    |            |              |              |               |
| Pancreas                 |            |              |              |               |
| Carcinoma                |            |              |              |               |
| <hr/>                    |            |              |              |               |
| <b>TUMOR RATES</b>       |            |              |              |               |
| OVERALL (a)              | 1/50 (2%)  | 3/50 (6%)    | 0/50 (0%)    | 3/50 (6%)     |
| LITTERS (b)              | 1/25 (4%)  | 3/25 (12%)   | 0/25 (0%)    | 3/25 (12%)    |
| POLY-3 RATE (c)          | 1/34.15    | 3/39.93      | 0/40.99      | 3/40.33       |
| POLY-3 PERCENT (g)       | 2.9%       | 7.5%         | 0%           | 7.4%          |
| TERMINAL (d)             | 0/12 (0%)  | 2/26 (8%)    | 0/24 (0%)    | 3/29 (10%)    |
| FIRST INCIDENCE          | 652        | 666          | ---          | 729 (T)       |
| <hr/>                    |            |              |              |               |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| POLY 3                   | P=0.381    | P=0.362      | P=0.464N     | P=0.366       |
| POLY 1.5                 | P=0.354    | P=0.335      | P=0.479N     | P=0.336       |
| POLY 6                   | P=0.420    | P=0.411      | P=0.440N     | P=0.418       |
| RAO-SCOTT                | P=0.389    | P=0.367      | P=0.450N     | P=0.371       |
| LITTER C-A/FISHERS       | P=0.321    | P=0.305      | P=0.500N     | P=0.305       |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                        | Males       |              |              |               |
|-----------------------------|-------------|--------------|--------------|---------------|
|                             | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Pancreas</b>             |             |              |              |               |
| <b>Carcinoma or Adenoma</b> |             |              |              |               |
| <hr/>                       |             |              |              |               |
| <b>TUMOR RATES</b>          |             |              |              |               |
| <b>OVERALL (a)</b>          | 14/50 (28%) | 21/50 (42%)  | 20/50 (40%)  | 16/50 (32%)   |
| <b>LITTERS (b)</b>          | 12/25 (48%) | 17/25 (68%)  | 15/25 (60%)  | 11/25 (44%)   |
| <b>POLY-3 RATE (c)</b>      | 14/35.80    | 21/41.25     | 20/42.39     | 16/40.97      |
| <b>POLY-3 PERCENT (g)</b>   | 39.1%       | 50.9%        | 47.2%        | 39.1%         |
| <b>TERMINAL (d)</b>         | 6/12 (50%)  | 16/26 (62%)  | 12/24 (50%)  | 14/29 (48%)   |
| <b>FIRST INCIDENCE</b>      | 600         | 557          | 627          | 616           |
| <hr/>                       |             |              |              |               |
| <b>STATISTICAL TESTS</b>    |             |              |              |               |
| <b>POLY 3</b>               | P=0.374N    | P=0.199      | P=0.307      | P=0.593N      |
| <b>POLY 1.5</b>             | P=0.465N    | P=0.145      | P=0.227      | P=0.506       |
| <b>POLY 6</b>               | P=0.256N    | P=0.322      | P=0.462      | P=0.457N      |
| <b>RAO-SCOTT</b>            | P=0.402N    | P=0.213      | P=0.311      | P=0.573N      |
| <b>LITTER C-A/FISHERS</b>   | P=0.282N    | P=0.126      | P=0.285      | P=0.500N      |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                             | Males      |              |              |               |
|----------------------------------|------------|--------------|--------------|---------------|
|                                  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Parathyroid Gland Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>               |            |              |              |               |
| OVERALL (a)                      | 0/43 (0%)  | 1/45 (2%)    | 0/45 (0%)    | 2/45 (4%)     |
| LITTERS (b)                      | 0/23 (0%)  | 1/25 (4%)    | 0/25 (0%)    | 2/25 (8%)     |
| POLY-3 RATE (c)                  | 0/29.68    | 1/34.69      | 0/37.11      | 2/35.85       |
| POLY-3 PERCENT (g)               | 0%         | 2.9%         | 0%           | 5.6%          |
| TERMINAL (d)                     | 0/11 (0%)  | 1/21 (5%)    | 0/22 (0%)    | 2/26 (8%)     |
| FIRST INCIDENCE                  | ---        | 729 (T)      | ---          | 729 (T)       |
| <b>STATISTICAL TESTS</b>         |            |              |              |               |
| POLY 3                           | P=0.166    | P=0.531      | (e)          | P=0.280       |
| POLY 1.5                         | P=0.154    | P=0.519      | (e)          | P=0.262       |
| POLY 6                           | P=0.185    | P=0.551      | (e)          | P=0.313       |
| RAO-SCOTT                        | P=0.217    | P=0.540      | (e)          | P=0.324       |
| LITTER C-A/FISHERS               | P=0.146    | P=0.521      | (e)          | P=0.266       |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE | Males      |              |              |               |
|------|------------|--------------|--------------|---------------|
|      | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |

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**Pituitary Gland: Pars Distalis or Unspecified Site  
Adenoma**

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**TUMOR RATES**

|                    |            |            |            |            |
|--------------------|------------|------------|------------|------------|
| OVERALL (a)        | 8/50 (16%) | 5/50 (10%) | 5/50 (10%) | 7/50 (14%) |
| LITTERS (b)        | 7/25 (28%) | 5/25 (20%) | 5/25 (20%) | 6/25 (24%) |
| POLY-3 RATE (c)    | 8/36.13    | 5/40.40    | 5/41.21    | 7/40.73    |
| POLY-3 PERCENT (g) | 22.1%      | 12.4%      | 12.1%      | 17.2%      |
| TERMINAL (d)       | 1/12 (8%)  | 3/26 (12%) | 3/24 (13%) | 6/29 (21%) |
| FIRST INCIDENCE    | 551        | 585        | 688        | 617        |

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**STATISTICAL TESTS**

|                    |          |          |          |          |
|--------------------|----------|----------|----------|----------|
| POLY 3             | P=0.463N | P=0.202N | P=0.191N | P=0.398N |
| POLY 1.5           | P=0.485N | P=0.234N | P=0.223N | P=0.446N |
| POLY 6             | P=0.434N | P=0.156N | P=0.149N | P=0.327N |
| RAO-SCOTT          | P=0.439N | P=0.213N | P=0.203N | P=0.395N |
| LITTER C-A/FISHERS | P=0.484N | P=0.371N | P=0.371N | P=0.500N |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE | Males      |              |              |               |
|------|------------|--------------|--------------|---------------|
|      | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |

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Pituitary Gland: Pars Distalis or Unspecified Site  
Carcinoma

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**TUMOR RATES**

|                    |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|
| OVERALL (a)        | 1/50 (2%) | 2/50 (4%) | 1/50 (2%) | 0/50 (0%) |
| LITTERS (b)        | 1/25 (4%) | 2/25 (8%) | 1/25 (4%) | 0/25 (0%) |
| POLY-3 RATE (c)    | 1/33.87   | 2/39.89   | 1/41.34   | 0/40.33   |
| POLY-3 PERCENT (g) | 3%        | 5%        | 2.4%      | 0%        |
| TERMINAL (d)       | 1/12 (8%) | 1/26 (4%) | 0/24 (0%) | 0/29 (0%) |
| FIRST INCIDENCE    | 729 (T)   | 676       | 632       | ---       |

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**STATISTICAL TESTS**

|                    |          |         |          |          |
|--------------------|----------|---------|----------|----------|
| POLY 3             | P=0.206N | P=0.557 | P=0.715N | P=0.465N |
| POLY 1.5           | P=0.225N | P=0.530 | P=0.735N | P=0.482N |
| POLY 6             | P=0.181N | P=0.602 | P=0.680N | P=0.438N |
| RAO-SCOTT          | P=0.240N | P=0.534 | P=0.680N | P=0.440N |
| LITTER C-A/FISHERS | P=0.245N | P=0.500 | P=0.755  | P=0.500N |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE | Males      |              |              |               |
|------|------------|--------------|--------------|---------------|
|      | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |

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**Pituitary Gland: Pars Distalis or Unspecified Site  
Carcinoma or Adenoma**

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**TUMOR RATES**

|                    |            |            |            |            |
|--------------------|------------|------------|------------|------------|
| OVERALL (a)        | 9/50 (18%) | 7/50 (14%) | 6/50 (12%) | 7/50 (14%) |
| LITTERS (b)        | 8/25 (32%) | 7/25 (28%) | 6/25 (24%) | 6/25 (24%) |
| POLY-3 RATE (c)    | 9/36.13    | 7/40.60    | 6/41.56    | 7/40.73    |
| POLY-3 PERCENT (g) | 24.9%      | 17.2%      | 14.4%      | 17.2%      |
| TERMINAL (d)       | 2/12 (17%) | 4/26 (15%) | 3/24 (13%) | 6/29 (21%) |
| FIRST INCIDENCE    | 551        | 585        | 632        | 617        |

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**STATISTICAL TESTS**

|                    |          |          |          |          |
|--------------------|----------|----------|----------|----------|
| POLY 3             | P=0.291N | P=0.292N | P=0.188N | P=0.290N |
| POLY 1.5           | P=0.319N | P=0.337N | P=0.226N | P=0.338N |
| POLY 6             | P=0.259N | P=0.226N | P=0.140N | P=0.224N |
| RAO-SCOTT          | P=0.281N | P=0.289N | P=0.191N | P=0.287N |
| LITTER C-A/FISHERS | P=0.310N | P=0.500N | P=0.377N | P=0.377N |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Males      |              |              |               |
|--|------------|--------------|--------------|---------------|
|  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Skin</b>  |            |              |              |               |
| Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma |            |              |              |               |
| <b>TUMOR RATES</b>   | #          | #            | #            | #             |
| OVERALL (a)  | 1/50 (2%)  | 1/50 (2%)    | 0/50 (0%)    | 2/50 (4%)     |
| LITTERS (b)  | 1/25 (4%)  | 1/25 (4%)    | 0/25 (0%)    | 2/25 (8%)     |
| POLY-3 RATE (c)  | 1/33.87    | 1/39.69      | 0/40.99      | 2/40.33       |
| POLY-3 PERCENT (g)   | 3%         | 2.5%         | 0%           | 5%            |
| TERMINAL (d)   | 1/12 (8%)  | 1/26 (4%)    | 0/24 (0%)    | 2/29 (7%)     |
| FIRST INCIDENCE  | 729 (T)    | 729 (T)      | ---          | 729 (T)       |
| <b>STATISTICAL TESTS</b>   |            |              |              |               |
| POLY 3   | P=0.396    | P=0.725N     | P=0.462N     | P=0.561       |
| POLY 1.5   | P=0.383    | P=0.742N     | P=0.478N     | P=0.531       |
| POLY 6   | P=0.413    | P=0.693N     | P=0.436N     | P=0.608       |
| RAO-SCOTT  | P=0.416    | P=0.685N     | P=0.437N     | P=0.537       |
| LITTER C-A/FISHERS   | P=0.365    | P=0.755      | P=0.500N     | P=0.500       |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Skin</b>              |            |              |              |               |
| <b>Fibroma</b>           |            |              |              |               |
| <b>TUMOR RATES</b>       | #          | #            | #            | #             |
| OVERALL (a)              | 3/50 (6%)  | 2/50 (4%)    | 2/50 (4%)    | 2/50 (4%)     |
| LITTERS (b)              | 3/25 (12%) | 2/25 (8%)    | 2/25 (8%)    | 2/25 (8%)     |
| POLY-3 RATE (c)          | 3/34.14    | 2/39.89      | 2/41.02      | 2/40.33       |
| POLY-3 PERCENT (g)       | 8.8%       | 5%           | 4.9%         | 5%            |
| TERMINAL (d)             | 1/12 (8%)  | 1/26 (4%)    | 1/24 (4%)    | 2/29 (7%)     |
| FIRST INCIDENCE          | 666        | 677          | 722          | 729 (T)       |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| POLY 3                   | P=0.392N   | P=0.429N     | P=0.417N     | P=0.424N      |
| POLY 1.5                 | P=0.409N   | P=0.463N     | P=0.452N     | P=0.461N      |
| POLY 6                   | P=0.373N   | P=0.374N     | P=0.362N     | P=0.366N      |
| RAO-SCOTT                | P=0.365N   | P=0.396N     | P=0.385N     | P=0.391N      |
| LITTER C-A/FISHERS       | P=0.430N   | P=0.500N     | P=0.500N     | P=0.500N      |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Males      |              |              |               |
|--|------------|--------------|--------------|---------------|
|  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Skin</b>  |            |              |              |               |
| Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma |            |              |              |               |
| <b>TUMOR RATES</b>   | #          | #            | #            | #             |
| OVERALL (a)  | 3/50 (6%)  | 3/50 (6%)    | 2/50 (4%)    | 2/50 (4%)     |
| LITTERS (b)  | 3/25 (12%) | 3/25 (12%)   | 2/25 (8%)    | 2/25 (8%)     |
| POLY-3 RATE (c)  | 3/34.14    | 3/40.05      | 2/41.02      | 2/40.33       |
| POLY-3 PERCENT (g)   | 8.8%       | 7.5%         | 4.9%         | 5%            |
| TERMINAL (d)   | 1/12 (8%)  | 1/26 (4%)    | 1/24 (4%)    | 2/29 (7%)     |
| FIRST INCIDENCE  | 666        | 677          | 722          | 729 (T)       |
| <b>STATISTICAL TESTS</b>   |            |              |              |               |
| POLY 3   | P=0.322N   | P=0.587N     | P=0.417N     | P=0.424N      |
| POLY 1.5   | P=0.344N   | P=0.624N     | P=0.452N     | P=0.461N      |
| POLY 6   | P=0.294N   | P=0.523N     | P=0.362N     | P=0.366N      |
| RAO-SCOTT  | P=0.307N   | P=0.551N     | P=0.384N     | P=0.391N      |
| LITTER C-A/FISHERS   | P=0.368N   | P=0.666      | P=0.500N     | P=0.500N      |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Males      |              |              |               |
|--------------------------|------------|--------------|--------------|---------------|
|                          | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Skin</b>              |            |              |              |               |
| <b>Lipoma</b>            |            |              |              |               |
| <b>TUMOR RATES</b>       | #          | #            | #            | #             |
| OVERALL (a)              | 0/50 (0%)  | 2/50 (4%)    | 0/50 (0%)    | 2/50 (4%)     |
| LITTERS (b)              | 0/25 (0%)  | 2/25 (8%)    | 0/25 (0%)    | 2/25 (8%)     |
| POLY-3 RATE (c)          | 0/33.87    | 2/39.88      | 0/40.99      | 2/40.46       |
| POLY-3 PERCENT (g)       | 0%         | 5%           | 0%           | 4.9%          |
| TERMINAL (d)             | 0/12 (0%)  | 1/26 (4%)    | 0/24 (0%)    | 1/29 (3%)     |
| FIRST INCIDENCE          | ---        | 680          | ---          | 697           |
| <b>STATISTICAL TESTS</b> |            |              |              |               |
| POLY 3                   | P=0.301    | P=0.275      | (e)          | P=0.278       |
| POLY 1.5                 | P=0.275    | P=0.256      | (e)          | P=0.258       |
| POLY 6                   | P=0.344    | P=0.308      | (e)          | P=0.315       |
| RAO-SCOTT                | P=0.331    | P=0.319      | (e)          | P=0.323       |
| LITTER C-A/FISHERS       | P=0.245    | P=0.245      | (e)          | P=0.245       |



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                 | Males      |              |              |               |
|--------------------------------------|------------|--------------|--------------|---------------|
|                                      | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Thyroid Gland: C-Cell Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                   |            |              |              |               |
| OVERALL (a)                          | 4/50 (8%)  | 3/50 (6%)    | 5/50 (10%)   | 6/50 (12%)    |
| LITTERS (b)                          | 4/25 (16%) | 3/25 (12%)   | 5/25 (20%)   | 5/25 (20%)    |
| POLY-3 RATE (c)                      | 4/35.25    | 3/39.89      | 5/41.61      | 6/40.85       |
| POLY-3 PERCENT (g)                   | 11.4%      | 7.5%         | 12%          | 14.7%         |
| TERMINAL (d)                         | 1/12 (8%)  | 2/26 (8%)    | 1/24 (4%)    | 4/29 (14%)    |
| FIRST INCIDENCE                      | 450        | 677          | 648          | 652           |
| <b>STATISTICAL TESTS</b>             |            |              |              |               |
| POLY 3                               | P=0.282    | P=0.432N     | P=0.604      | P=0.465       |
| POLY 1.5                             | P=0.255    | P=0.465N     | P=0.560      | P=0.417       |
| POLY 6                               | P=0.324    | P=0.376N     | P=0.603N     | P=0.546       |
| RAO-SCOTT                            | P=0.300    | P=0.418N     | P=0.582      | P=0.452       |
| LITTER C-A/FISHERS                   | P=0.343    | P=0.500N     | P=0.500      | P=0.500       |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

---

| DOSE                                   | Males      |              |              |               |
|--|------------|--------------|--------------|---------------|
|  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Thyroid Gland: C-Cell Carcinoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                     |            |              |              |               |
| OVERALL (a)                            | 0/50 (0%)  | 1/50 (2%)    | 4/50 (8%)    | 3/50 (6%)     |
| LITTERS (b)                            | 0/25 (0%)  | 1/25 (4%)    | 4/25 (16%)   | 3/25 (12%)    |
| POLY-3 RATE (c)                        | 0/33.87    | 1/39.69      | 4/41.48      | 3/40.90       |
| POLY-3 PERCENT (g)                     | 0%         | 2.5%         | 9.6%         | 7.3%          |
| TERMINAL (d)                           | 0/12 (0%)  | 1/26 (4%)    | 2/24 (8%)    | 1/29 (3%)     |
| FIRST INCIDENCE                        | ---        | 729 (T)      | 632          | 616           |
| <b>STATISTICAL TESTS</b>               |            |              |              |               |
| POLY 3                                 | P=0.107    | P=0.531      | P=0.090      | P=0.155       |
| POLY 1.5                               | P=0.088    | P=0.517      | P=0.076      | P=0.136       |
| POLY 6                                 | P=0.143    | P=0.557      | P=0.117      | P=0.191       |
| RAO-SCOTT                              | P=0.123    | P=0.500      | P=0.111      | P=0.174       |
| LITTER C-A/FISHERS                     | P=0.067    | P=0.500      | P=0.055      | P=0.117       |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>Thyroid Gland: C-Cell<br/>Carcinoma or Adenoma</b> |            |              |              |               |
| <b>TUMOR RATES</b>                                    |            |              |              |               |
| OVERALL (a)   | 4/50 (8%)  | 4/50 (8%)    | 8/50 (16%)   | 9/50 (18%)    |
| LITTERS (b)   | 4/25 (16%) | 4/25 (16%)   | 7/25 (28%)   | 8/25 (32%)    |
| POLY-3 RATE (c)                                       | 4/35.25    | 4/39.89      | 8/41.96      | 9/41.42       |
| POLY-3 PERCENT (g)                                    | 11.4%      | 10%          | 19.1%        | 21.7%         |
| TERMINAL (d)  | 1/12 (8%)  | 3/26 (12%)   | 3/24 (13%)   | 5/29 (17%)    |
| FIRST INCIDENCE                                       | 450        | 677          | 632          | 616           |
| <b>STATISTICAL TESTS</b>                              |            |              |              |               |
| POLY 3  | P=0.082    | P=0.575N     | P=0.269      | P=0.183       |
| POLY 1.5  | P=0.066    | P=0.608N     | P=0.227      | P=0.146       |
| POLY 6  | P=0.115    | P=0.514N     | P=0.348      | P=0.258       |
| RAO-SCOTT   | P=0.102    | P=0.554N     | P=0.278      | P=0.197       |
| LITTER C-A/FISHERS                                    | P=0.080    | P=0.649      | P=0.248      | P=0.160       |

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

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Males      |              |              |               |
|---|------------|--------------|--------------|---------------|
|   | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>All Organs</b>   |            |              |              |               |
| <b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b> |            |              |              |               |
| <b>TUMOR RATES</b>  | #          | #            | #            | #             |
| <b>OVERALL (a)</b>  | 1/50 (2%)  | 0/50 (0%)    | 2/50 (4%)    | 0/50 (0%)     |
| <b>LITTERS (b)</b>  | 1/25 (4%)  | 0/25 (0%)    | 2/25 (8%)    | 0/25 (0%)     |
| <b>POLY-3 RATE (c)</b>  | 1/34.11    | 0/39.69      | 2/41.25      | 0/40.33       |
| <b>POLY-3 PERCENT (g)</b>   | 2.9%       | 0%           | 4.9%         | 0%            |
| <b>TERMINAL (d)</b>   | 0/12 (0%)  | 0/26 (0%)    | 0/24 (0%)    | 0/29 (0%)     |
| <b>FIRST INCIDENCE</b>  | 666        | ---          | 673          | ---           |
| <b>STATISTICAL TESTS</b>  |            |              |              |               |
| <b>POLY 3</b>   | P=0.436N   | P=0.470N     | P=0.566      | P=0.467N      |
| <b>POLY 1.5</b>   | P=0.448N   | P=0.484N     | P=0.538      | P=0.483N      |
| <b>POLY 6</b>   | P=0.422N   | P=0.446N     | P=0.610      | P=0.441N      |
| <b>RAO-SCOTT</b>  | P=0.465N   | P=0.506N     | P=0.575      | P=0.505N      |
| <b>LITTER C-A/FISHERS</b>   | P=0.461N   | P=0.500N     | P=0.500      | P=0.500N      |

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Test Type: CHRONIC

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**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Males      |              |              |               |
|--|------------|--------------|--------------|---------------|
|  | 0mg/L male | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>All Organs</b>  |            |              |              |               |
| <b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b> |            |              |              |               |
| <b>TUMOR RATES</b>   | #          | #            | #            | #             |
| 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)  | 1/34.39    | 0/39.69      | 1/41.43      | 2/40.74       |
| 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  | 571        | ---          | 603          | 666           |
| <b>STATISTICAL TESTS</b>   |            |              |              |               |
| POLY 3   | P=0.269    | P=0.471N     | P=0.718N     | P=0.559       |
| POLY 1.5   | P=0.259    | P=0.485N     | P=0.737N     | P=0.530       |
| POLY 6   | P=0.282    | P=0.449N     | P=0.686N     | P=0.605       |
| RAO-SCOTT  | P=0.301    | P=0.441N     | P=0.683N     | P=0.536       |
| LITTER C-A/FISHERS   | P=0.245    | P=0.500N     | P=0.755      | P=0.500       |

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Species/Strain: RATS/HSD

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                      | Males       |              |              |               |
|---------------------------|-------------|--------------|--------------|---------------|
|                           | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>All Organs</b>         |             |              |              |               |
| <b>Benign Tumors</b>      |             |              |              |               |
| <b>TUMOR RATES</b>        | #           | #            | #            | #             |
| <b>OVERALL (a)</b>        | 29/50 (58%) | 36/50 (72%)  | 31/50 (62%)  | 29/50 (58%)   |
| <b>LITTERS (b)</b>        | 21/25 (84%) | 22/25 (88%)  | 20/25 (80%)  | 21/25 (84%)   |
| <b>POLY-3 RATE (c)</b>    | 29/40.58    | 36/43.99     | 31/44.49     | 29/42.35      |
| <b>POLY-3 PERCENT (g)</b> | 71.5%       | 81.8%        | 69.7%        | 68.5%         |
| <b>TERMINAL (d)</b>       | 8/12 (67%)  | 21/26 (81%)  | 16/24 (67%)  | 22/29 (76%)   |
| <b>FIRST INCIDENCE</b>    | 450         | 557          | 517          | 616           |
| <b>STATISTICAL TESTS</b>  |             |              |              |               |
| <b>POLY 3</b>             | P=0.235N    | P=0.168      | P=0.524N     | P=0.475N      |
| <b>POLY 1.5</b>           | P=0.285N    | P=0.123      | P=0.577      | P=0.531N      |
| <b>POLY 6</b>             | P=0.191N    | P=0.293      | P=0.406N     | P=0.396N      |
| <b>RAO-SCOTT</b>          | P=0.260N    | P=0.190      | P=0.512N     | P=0.466N      |
| <b>LITTER C-A/FISHERS</b> | P=0.500N    | P=0.500      | P=0.500N     | P=0.649       |

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Males       |              |              |               |
|--------------------------|-------------|--------------|--------------|---------------|
|                          | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>All Organs</b>        |             |              |              |               |
| <b>Malignant Tumors</b>  |             |              |              |               |
| <b>TUMOR RATES</b>       | #           | #            | #            | #             |
| OVERALL (a)              | 14/50 (28%) | 14/50 (28%)  | 14/50 (28%)  | 17/50 (34%)   |
| LITTERS (b)              | 11/25 (44%) | 13/25 (52%)  | 10/25 (40%)  | 12/25 (48%)   |
| POLY-3 RATE (c)          | 14/37.22    | 14/43.42     | 14/42.63     | 17/44.08      |
| POLY-3 PERCENT (g)       | 37.6%       | 32.2%        | 32.8%        | 38.6%         |
| TERMINAL (d)             | 5/12 (42%)  | 7/26 (27%)   | 6/24 (25%)   | 9/29 (31%)    |
| FIRST INCIDENCE          | 456         | 156          | 603          | 4             |
| <b>STATISTICAL TESTS</b> |             |              |              |               |
| POLY 3                   | P=0.420     | P=0.392N     | P=0.415N     | P=0.557       |
| POLY 1.5                 | P=0.357     | P=0.471N     | P=0.489N     | P=0.459       |
| POLY 6                   | P=0.519     | P=0.280N     | P=0.299N     | P=0.479N      |
| RAO-SCOTT                | P=0.447     | P=0.404N     | P=0.424N     | P=0.550       |
| LITTER C-A/FISHERS       | P=0.527     | P=0.389      | P=0.500N     | P=0.500       |

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Species/Strain: RATS/HSD

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                               | Males       |              |              |               |
|------------------------------------|-------------|--------------|--------------|---------------|
|                                    | 0mg/L male  | 250mg/L male | 500mg/L male | 1000mg/L male |
| <b>All Organs</b>                  |             |              |              |               |
| <b>Malignant and Benign Tumors</b> |             |              |              |               |
| <b>TUMOR RATES</b>                 | #           | #            | #            | #             |
| <b>OVERALL (a)</b>                 | 36/50 (72%) | 42/50 (84%)  | 37/50 (74%)  | 38/50 (76%)   |
| <b>LITTERS (b)</b>                 | 23/25 (92%) | 25/25 (100%) | 23/25 (92%)  | 24/25 (96%)   |
| <b>POLY-3 RATE (c)</b>             | 36/43.17    | 42/47.12     | 37/45.80     | 38/45.47      |
| <b>POLY-3 PERCENT (g)</b>          | 83.4%       | 89.1%        | 80.8%        | 83.6%         |
| <b>TERMINAL (d)</b>                | 10/12 (83%) | 23/26 (89%)  | 18/24 (75%)  | 25/29 (86%)   |
| <b>FIRST INCIDENCE</b>             | 450         | 156          | 517          | 4             |
| <b>STATISTICAL TESTS</b>           |             |              |              |               |
| <b>POLY 3</b>                      | P=0.424N    | P=0.292      | P=0.481N     | P=0.614       |
| <b>POLY 1.5</b>                    | P=0.461N    | P=0.209      | P=0.555N     | P=0.543       |
| <b>POLY 6</b>                      | P=0.378N    | P=0.445      | P=0.367N     | P=0.569N      |
| <b>RAO-SCOTT</b>                   | P=0.431N    | P=0.301      | P=0.470N     | P=0.590       |
| <b>LITTER C-A/FISHERS</b>          | P=0.531     | P=0.245      | P=0.695      | P=0.500       |



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                           | Females      |                |                |                 |
|--------------------------------|--------------|----------------|----------------|-----------------|
|                                | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Adrenal Medulla</b>         |              |                |                |                 |
| <b>Pheochromocytoma Benign</b> |              |                |                |                 |
| <b>TUMOR RATES</b>             |              |                |                |                 |
| OVERALL (a)                    | 1/50 (2%)    | 3/50 (6%)      | 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      | 3/43.65        | 0/40.34        | 1/42.04         |
| POLY-3 PERCENT (g)             | 2.5%         | 6.9%           | 0%             | 2.4%            |
| TERMINAL (d)                   | 1/30 (3%)    | 3/33 (9%)      | 0/31 (0%)      | 1/31 (3%)       |
| FIRST INCIDENCE                | 730 (T)      | 730 (T)        | ---            | 730 (T)         |
| <b>STATISTICAL TESTS</b>       |              |                |                |                 |
| POLY 3                         | P=0.402N     | P=0.329        | P=0.503N       | P=0.755N        |
| POLY 1.5                       | P=0.405N     | P=0.320        | P=0.502N       | P=0.757N        |
| POLY 6                         | P=0.398N     | P=0.338        | P=0.503N       | P=0.752N        |
| RAO-SCOTT                      | P=0.428N     | P=0.363        | P=0.520N       | P=0.744N        |
| LITTER C-A/FISHERS             | P=0.408N     | P=0.305        | P=0.500N       | P=0.755         |

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                              | Females      |                |                |                 |
|-----------------------------------|--------------|----------------|----------------|-----------------|
|                                   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Adrenal Medulla</b>            |              |                |                |                 |
| <b>Pheochromocytoma Malignant</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                |              |                |                |                 |
| 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)                   | 1/40.87      | 1/43.82        | 0/40.34        | 0/42.04         |
| POLY-3 PERCENT (g)                | 2.5%         | 2.3%           | 0%             | 0%              |
| TERMINAL (d)                      | 1/30 (3%)    | 0/33 (0%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE                   | 730 (T)      | 686            | ---            | ---             |
| <b>STATISTICAL TESTS</b>          |              |                |                |                 |
| 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   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Adrenal Medulla</b>                                   |              |                |                |                 |
| <b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                                       |              |                |                |                 |
| OVERALL (a)  | 2/50 (4%)    | 4/50 (8%)      | 0/50 (0%)      | 1/50 (2%)       |
| LITTERS (b)  | 2/25 (8%)    | 4/25 (16%)     | 0/25 (0%)      | 1/25 (4%)       |
| POLY-3 RATE (c)  | 2/40.87      | 4/43.82        | 0/40.34        | 1/42.04         |
| POLY-3 PERCENT (g)                                       | 4.9%         | 9.1%           | 0%             | 2.4%            |
| TERMINAL (d)   | 2/30 (7%)    | 3/33 (9%)      | 0/31 (0%)      | 1/31 (3%)       |
| FIRST INCIDENCE  | 730 (T)      | 686            | ---            | 730 (T)         |
| <b>STATISTICAL TESTS</b>                                 |              |                |                |                 |
| POLY 3   | P=0.192N     | P=0.369        | P=0.240N       | P=0.490N        |
| POLY 1.5   | P=0.195N     | P=0.357        | P=0.239N       | P=0.494N        |
| POLY 6   | P=0.190N     | P=0.383        | P=0.239N       | P=0.486N        |
| RAO-SCOTT  | P=0.231N     | P=0.395        | P=0.274N       | P=0.504N        |
| LITTER C-A/FISHERS                                       | P=0.195N     | P=0.334        | P=0.245N       | P=0.500N        |

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Species/Strain: RATS/HSD

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Brain</b>             |              |                |                |                 |
| <b>Glioma Malignant</b>  |              |                |                |                 |
| <b>TUMOR RATES</b>       |              |                |                |                 |
| 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        | 1/42.76         |
| POLY-3 PERCENT (g)       | 0%           | 0%             | 0%             | 2.3%            |
| TERMINAL (d)             | 0/30 (0%)    | 0/33 (0%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE          | ---          | ---            | ---            | 478             |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| 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

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                                      | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Brain</b>                              |              |                |                |                 |
| Oligodendroglioma, Glioma, or Astrocytoma |              |                |                |                 |
| <b>TUMOR RATES</b>                        |              |                |                |                 |
| 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        | 1/42.76         |
| POLY-3 PERCENT (g)                        | 0%           | 0%             | 0%             | 2.3%            |
| TERMINAL (d)                              | 0/30 (0%)    | 0/33 (0%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE                           | ---          | ---            | ---            | 478             |
| <b>STATISTICAL TESTS</b>                  |              |                |                |                 |
| 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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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                        | Females      |                |                |                 |
|-----------------------------|--------------|----------------|----------------|-----------------|
|                             | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Heart</b>                |              |                |                |                 |
| <b>Schwannoma Malignant</b> |              |                |                |                 |
| <b>TUMOR RATES</b>          |              |                |                |                 |
| OVERALL (a)                 | 2/50 (4%)    | 0/50 (0%)      | 0/49 (0%)      | 0/50 (0%)       |
| LITTERS (b)                 | 2/25 (8%)    | 0/25 (0%)      | 0/25 (0%)      | 0/25 (0%)       |
| POLY-3 RATE (c)             | 2/42.22      | 0/43.65        | 0/39.66        | 0/42.04         |
| POLY-3 PERCENT (g)          | 4.7%         | 0%             | 0%             | 0%              |
| TERMINAL (d)                | 0/30 (0%)    | 0/33 (0%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE             | 286          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b>    |              |                |                |                 |
| POLY 3                      | P=0.118N     | P=0.230N       | P=0.251N       | P=0.238N        |
| POLY 1.5                    | P=0.117N     | P=0.233N       | P=0.249N       | P=0.238N        |
| POLY 6                      | P=0.120N     | P=0.226N       | P=0.252N       | P=0.237N        |
| RAO-SCOTT                   | P=0.225N     | P=0.374N       | P=0.383N       | P=0.376N        |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                              | Females      |                |                |                 |
|-----------------------------------|--------------|----------------|----------------|-----------------|
|                                   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Islets, Pancreatic Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                |              |                |                |                 |
| OVERALL (a)                       | 1/50 (2%)    | 1/50 (2%)      | 0/50 (0%)      | 2/50 (4%)       |
| LITTERS (b)                       | 1/25 (4%)    | 1/25 (4%)      | 0/25 (0%)      | 2/25 (8%)       |
| POLY-3 RATE (c)                   | 1/40.87      | 1/43.65        | 0/40.34        | 2/42.04         |
| POLY-3 PERCENT (g)                | 2.5%         | 2.3%           | 0%             | 4.8%            |
| TERMINAL (d)                      | 1/30 (3%)    | 1/33 (3%)      | 0/31 (0%)      | 2/31 (7%)       |
| FIRST INCIDENCE                   | 730 (T)      | 730 (T)        | ---            | 730 (T)         |
| <b>STATISTICAL TESTS</b>          |              |                |                |                 |
| POLY 3                            | P=0.366      | P=0.746N       | P=0.503N       | P=0.510         |
| POLY 1.5                          | P=0.366      | P=0.752N       | P=0.502N       | P=0.506         |
| POLY 6                            | P=0.366      | P=0.740N       | P=0.503N       | P=0.514         |
| RAO-SCOTT                         | P=0.388      | P=0.737N       | P=0.509N       | P=0.517         |
| LITTER C-A/FISHERS                | P=0.365      | P=0.755        | P=0.500N       | P=0.500         |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                                | Females      |                |                |                 |
|-------------------------------------|--------------|----------------|----------------|-----------------|
|                                     | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Islets, Pancreatic Carcinoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                  |              |                |                |                 |
| OVERALL (a)                         | 1/50 (2%)    | 0/50 (0%)      | 0/50 (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        | 0/40.34        | 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)         |
| <b>STATISTICAL TESTS</b>            |              |                |                |                 |
| 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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Experiment Number: 03038 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Islets, Pancreatic<br/>Carcinoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                                 |              |                |                |                 |
| 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)                                    | 2/40.87      | 1/43.65        | 0/40.34        | 3/42.04         |
| POLY-3 PERCENT (g)                                 | 4.9%         | 2.3%           | 0%             | 7.1%            |
| TERMINAL (d)                                       | 2/30 (7%)    | 1/33 (3%)      | 0/31 (0%)      | 3/31 (10%)      |
| FIRST INCIDENCE                                    | 730 (T)      | 730 (T)        | ---            | 730 (T)         |
| <b>STATISTICAL TESTS</b>                           |              |                |                |                 |
| POLY 3   | P=0.332      | P=0.477N       | P=0.240N       | P=0.513         |
| POLY 1.5   | P=0.334      | P=0.486N       | P=0.239N       | P=0.508         |
| POLY 6   | P=0.330      | P=0.468N       | P=0.239N       | P=0.518         |
| RAO-SCOTT  | P=0.367      | P=0.500N       | P=0.280N       | P=0.524         |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
Sodium Tungstate Dihydrate  
CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
Time Report Requested: 11:13:12  
First Dose M/F: 01/30/12 / 01/31/12  
Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                                    | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Kidney: Renal Tubule<br/>Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                      |              |                |                |                 |
| 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                         | ---          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b>                |              |                |                |                 |
| 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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Experiment Number: 03038 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                          | Females      |                |                |                 |
|-------------------------------|--------------|----------------|----------------|-----------------|
|                               | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Liver</b>                  |              |                |                |                 |
| <b>Hepatocellular Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>            |              |                |                |                 |
| 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      | 2/43.65        | 0/40.34        | 1/42.04         |
| POLY-3 PERCENT (g)            | 2.5%         | 4.6%           | 0%             | 2.4%            |
| TERMINAL (d)                  | 1/30 (3%)    | 2/33 (6%)      | 0/31 (0%)      | 1/31 (3%)       |
| FIRST INCIDENCE               | 730 (T)      | 730 (T)        | ---            | 730 (T)         |
| <b>STATISTICAL TESTS</b>      |              |                |                |                 |
| POLY 3                        | P=0.497N     | P=0.523        | P=0.503N       | P=0.755N        |
| POLY 1.5                      | P=0.498N     | P=0.514        | P=0.502N       | P=0.757N        |
| POLY 6                        | P=0.496N     | P=0.532        | P=0.503N       | P=0.752N        |
| RAO-SCOTT                     | P=0.502N     | P=0.527        | P=0.499N       | P=0.738N        |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                         | Females      |                |                |                 |
|------------------------------|--------------|----------------|----------------|-----------------|
|                              | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>           | #            | #              | #              | #               |
| OVERALL (a)                  | 3/50 (6%)    | 0/50 (0%)      | 3/50 (6%)      | 2/50 (4%)       |
| LITTERS (b)                  | 3/25 (12%)   | 0/25 (0%)      | 3/25 (12%)     | 2/25 (8%)       |
| POLY-3 RATE (c)              | 3/41.45      | 0/43.65        | 3/40.81        | 2/43.02         |
| POLY-3 PERCENT (g)           | 7.2%         | 0%             | 7.4%           | 4.7%            |
| TERMINAL (d)                 | 1/30 (3%)    | 0/33 (0%)      | 2/31 (7%)      | 1/31 (3%)       |
| FIRST INCIDENCE              | 624          | ---            | 588            | 200             |
| <b>STATISTICAL TESTS</b>     |              |                |                |                 |
| POLY 3                       | P=0.598N     | P=0.109N       | P=0.656        | P=0.483N        |
| POLY 1.5                     | P=0.596N     | P=0.113N       | P=0.658        | P=0.487N        |
| POLY 6                       | P=0.595      | P=0.107N       | P=0.655        | P=0.482N        |
| RAO-SCOTT                    | P=0.585N     | P=0.137N       | P=0.643        | P=0.489N        |
| LITTER C-A/FISHERS           | P=0.598      | P=0.117N       | P=0.666        | P=0.500N        |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                           | Females      |                |                |                 |
|--------------------------------|--------------|----------------|----------------|-----------------|
|                                | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland Carcinoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>             | #            | #              | #              | #               |
| OVERALL (a)                    | 2/50 (4%)    | 1/50 (2%)      | 2/50 (4%)      | 2/50 (4%)       |
| LITTERS (b)                    | 2/25 (8%)    | 1/25 (4%)      | 2/25 (8%)      | 2/25 (8%)       |
| POLY-3 RATE (c)                | 2/41.28      | 1/43.98        | 2/41.08        | 2/42.04         |
| POLY-3 PERCENT (g)             | 4.8%         | 2.3%           | 4.9%           | 4.8%            |
| TERMINAL (d)                   | 1/30 (3%)    | 0/33 (0%)      | 1/31 (3%)      | 2/31 (7%)       |
| FIRST INCIDENCE                | 612          | 638            | 463            | 730 (T)         |
| <b>STATISTICAL TESTS</b>       |              |                |                |                 |
| POLY 3                         | P=0.521      | P=0.478N       | P=0.693        | P=0.688N        |
| POLY 1.5                       | P=0.523      | P=0.486N       | P=0.693        | P=0.690N        |
| POLY 6                         | P=0.517      | P=0.469N       | P=0.693        | P=0.687N        |
| RAO-SCOTT                      | P=0.516      | P=0.465N       | P=0.670        | P=0.667N        |
| LITTER C-A/FISHERS             | P=0.526      | P=0.500N       | P=0.695        | P=0.695         |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland<br/>Carcinoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                            | #            | #              | #              | #               |
| OVERALL (a)                                   | 5/50 (10%)   | 1/50 (2%)      | 5/50 (10%)     | 4/50 (8%)       |
| LITTERS (b)                                   | 5/25 (20%)   | 1/25 (4%)      | 5/25 (20%)     | 4/25 (16%)      |
| POLY-3 RATE (c)                               | 5/41.87      | 1/43.98        | 5/41.56        | 4/43.02         |
| POLY-3 PERCENT (g)                            | 11.9%        | 2.3%           | 12%            | 9.3%            |
| TERMINAL (d)                                  | 2/30 (7%)    | 0/33 (0%)      | 3/31 (10%)     | 3/31 (10%)      |
| FIRST INCIDENCE                               | 612          | 638            | 463            | 200             |
| <b>STATISTICAL TESTS</b>                      |              |                |                |                 |
| POLY 3  | P=0.517      | P=0.090N       | P=0.627        | P=0.483N        |
| POLY 1.5                                      | P=0.521      | P=0.094N       | P=0.628        | P=0.485N        |
| POLY 6  | P=0.509      | P=0.086N       | P=0.625        | P=0.486N        |
| RAO-SCOTT                                     | P=0.519      | P=0.096N       | P=0.611        | P=0.473N        |
| LITTER C-A/FISHERS                            | P=0.519      | P=0.095N       | P=0.637        | P=0.500N        |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                  | Females      |                |                |                 |
|---------------------------------------|--------------|----------------|----------------|-----------------|
|                                       | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland<br/>Fibroadenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                    | #            | #              | #              | #               |
| OVERALL (a)                           | 30/50 (60%)  | 29/50 (58%)    | 23/50 (46%)    | 18/50 (36%)     |
| LITTERS (b)                           | 22/25 (88%)  | 20/25 (80%)    | 18/25 (72%)    | 14/25 (56%)     |
| POLY-3 RATE (c)                       | 30/45.82     | 29/46.26       | 23/44.65       | 18/46.05        |
| POLY-3 PERCENT (g)                    | 65.5%        | 62.7%          | 51.5%          | 39.1%           |
| TERMINAL (d)                          | 17/30 (57%)  | 20/33 (61%)    | 13/31 (42%)    | 8/31 (26%)      |
| FIRST INCIDENCE                       | 494          | 392            | 500            | 413             |
| <b>STATISTICAL TESTS</b>              |              |                |                |                 |
| POLY 3                                | P=0.003N**   | P=0.475N       | P=0.124N       | P=0.008N**      |
| POLY 1.5                              | P=0.003N**   | P=0.476N       | P=0.119N       | P=0.009N**      |
| POLY 6                                | P=0.003N**   | P=0.487N       | P=0.129N       | P=0.008N**      |
| RAO-SCOTT                             | P=0.004N**   | P=0.471N       | P=0.127N       | P=0.010N**      |
| LITTER C-A/FISHERS                    | P=0.005N**   | P=0.351N       | P=0.145N       | P=0.013N*       |



Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                    | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland</b>                    |              |                |                |                 |
| <b>Fibroma, Fibroadenoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                      | #            | #              | #              | #               |
| <b>OVERALL (a)</b>                      | 32/50 (64%)  | 29/50 (58%)    | 25/50 (50%)    | 20/50 (40%)     |
| <b>LITTERS (b)</b>                      | 22/25 (88%)  | 20/25 (80%)    | 19/25 (76%)    | 16/25 (64%)     |
| <b>POLY-3 RATE (c)</b>                  | 32/46.02     | 29/46.26       | 25/44.65       | 20/47.03        |
| <b>POLY-3 PERCENT (g)</b>               | 69.5%        | 62.7%          | 56%            | 42.5%           |
| <b>TERMINAL (d)</b>                     | 18/30 (60%)  | 20/33 (61%)    | 15/31 (48%)    | 9/31 (29%)      |
| <b>FIRST INCIDENCE</b>                  | 494          | 392            | 500            | 200             |
| <b>STATISTICAL TESTS</b>                |              |                |                |                 |
| <b>POLY 3</b>                           | P=0.003N**   | P=0.315N       | P=0.127N       | P=0.006N**      |
| <b>POLY 1.5</b>                         | P=0.004N**   | P=0.314N       | P=0.119N       | P=0.007N**      |
| <b>POLY 6</b>                           | P=0.003N**   | P=0.332N       | P=0.139N       | P=0.006N**      |
| <b>RAO-SCOTT</b>                        | P=0.004N**   | P=0.312N       | P=0.128N       | P=0.008N**      |
| <b>LITTER C-A/FISHERS</b>               | P=0.030N*    | P=0.351N       | P=0.232N       | P=0.048N*       |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Mammary Gland</b>                                |              |                |                |                 |
| <b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                                  | #            | #              | #              | #               |
| OVERALL (a)   | 34/50 (68%)  | 29/50 (58%)    | 27/50 (54%)    | 22/50 (44%)     |
| LITTERS (b)   | 22/25 (88%)  | 20/25 (80%)    | 19/25 (76%)    | 18/25 (72%)     |
| POLY-3 RATE (c)                                     | 34/46.43     | 29/46.26       | 27/45.39       | 22/47.03        |
| POLY-3 PERCENT (g)                                  | 73.2%        | 62.7%          | 59.5%          | 46.8%           |
| TERMINAL (d)  | 19/30 (63%)  | 20/33 (61%)    | 16/31 (52%)    | 11/31 (36%)     |
| FIRST INCIDENCE                                     | 494          | 392            | 463            | 200             |
| <b>STATISTICAL TESTS</b>                            |              |                |                |                 |
| POLY 3  | P=0.005N**   | P=0.189N       | P=0.116N       | P=0.006N**      |
| POLY 1.5  | P=0.005N**   | P=0.183N       | P=0.109N       | P=0.007N**      |
| POLY 6  | P=0.005N**   | P=0.213N       | P=0.129N       | P=0.007N**      |
| RAO-SCOTT   | P=0.006N**   | P=0.190N       | P=0.117N       | P=0.008N**      |
| LITTER C-A/FISHERS                                  | P=0.114N     | P=0.351N       | P=0.232N       | P=0.145N        |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Pancreas</b>          |              |                |                |                 |
| <b>Adenoma</b>           |              |                |                |                 |
| <hr/>                    |              |                |                |                 |
| <b>TUMOR RATES</b>       |              |                |                |                 |
| 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/>                    |              |                |                |                 |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| 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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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Pancreas</b>          |              |                |                |                 |
| <b>Carcinoma</b>         |              |                |                |                 |
| <hr/>                    |              |                |                |                 |
| <b>TUMOR RATES</b>       |              |                |                |                 |
| 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/>                    |              |                |                |                 |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| 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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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                        | Females      |                |                |                 |
|-----------------------------|--------------|----------------|----------------|-----------------|
|                             | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Pancreas</b>             |              |                |                |                 |
| <b>Carcinoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>          |              |                |                |                 |
| 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             | ---          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b>    |              |                |                |                 |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                             | Females      |                |                |                 |
|----------------------------------|--------------|----------------|----------------|-----------------|
|                                  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Parathyroid Gland Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>               |              |                |                |                 |
| OVERALL (a)                      | 0/46 (0%)    | 0/47 (0%)      | 0/44 (0%)      | 0/44 (0%)       |
| LITTERS (b)                      | 0/25 (0%)    | 0/25 (0%)      | 0/25 (0%)      | 0/24 (0%)       |
| POLY-3 RATE (c)                  | 0/37.95      | 0/41.48        | 0/35.93        | 0/36.04         |
| POLY-3 PERCENT (g)               | 0%           | 0%             | 0%             | 0%              |
| TERMINAL (d)                     | 0/28 (0%)    | 0/31 (0%)      | 0/28 (0%)      | 0/25 (0%)       |
| FIRST INCIDENCE                  | ---          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b>         |              |                |                |                 |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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

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Pituitary Gland: Pars Distalis or Unspecified Site  
Adenoma

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**TUMOR RATES**

|                    |             |            |             |             |
|--------------------|-------------|------------|-------------|-------------|
| OVERALL (a)        | 16/50 (32%) | 9/50 (18%) | 13/50 (26%) | 10/50 (20%) |
| LITTERS (b)        | 11/25 (44%) | 9/25 (36%) | 12/25 (48%) | 10/25 (40%) |
| POLY-3 RATE (c)    | 16/41.99    | 9/44.48    | 13/41.60    | 10/42.64    |
| POLY-3 PERCENT (g) | 38.1%       | 20.2%      | 31.3%       | 23.5%       |
| TERMINAL (d)       | 11/30 (37%) | 5/33 (15%) | 9/31 (29%)  | 7/31 (23%)  |
| FIRST INCIDENCE    | 502         | 556        | 500         | 624         |

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**STATISTICAL TESTS**

|                    |          |           |          |          |
|--------------------|----------|-----------|----------|----------|
| POLY 3             | P=0.186N | P=0.052N  | P=0.333N | P=0.107N |
| POLY 1.5           | P=0.186N | P=0.062N  | P=0.334N | P=0.114N |
| POLY 6             | P=0.187N | P=0.043N* | P=0.327N | P=0.100N |
| RAO-SCOTT          | P=0.200N | P=0.070N  | P=0.343N | P=0.127N |
| LITTER C-A/FISHERS | P=0.527N | P=0.387N  | P=0.500  | P=0.500N |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE  | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Pituitary Gland: Pars Distalis or Unspecified Site<br/>Carcinoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>  |              |                |                |                 |
| 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)   | 1/40.87      | 2/44.00        | 0/40.34        | 0/42.04         |
| POLY-3 PERCENT (g)  | 2.5%         | 4.6%           | 0%             | 0%              |
| TERMINAL (d)  | 1/30 (3%)    | 1/33 (3%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE   | 730 (T)      | 630            | ---            | ---             |
| <b>STATISTICAL TESTS</b>  |              |                |                |                 |
| POLY 3  | P=0.184N     | P=0.526        | P=0.503N       | P=0.494N        |
| POLY 1.5  | P=0.186N     | P=0.516        | P=0.502N       | P=0.497N        |
| POLY 6  | P=0.182N     | P=0.537        | P=0.503N       | P=0.492N        |
| RAO-SCOTT   | P=0.253N     | P=0.565        | P=0.560N       | P=0.561N        |
| LITTER C-A/FISHERS  | P=0.186N     | P=0.500        | P=0.500N       | P=0.500N        |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Pituitary Gland: Pars Distalis or Unspecified Site<br/>Carcinoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>   |              |                |                |                 |
| OVERALL (a)  | 17/50 (34%)  | 11/50 (22%)    | 13/50 (26%)    | 10/50 (20%)     |
| LITTERS (b)  | 12/25 (48%)  | 10/25 (40%)    | 12/25 (48%)    | 10/25 (40%)     |
| POLY-3 RATE (c)  | 17/41.99     | 11/44.84       | 13/41.60       | 10/42.64        |
| POLY-3 PERCENT (g)   | 40.5%        | 24.5%          | 31.3%          | 23.5%           |
| TERMINAL (d)   | 12/30 (40%)  | 6/33 (18%)     | 9/31 (29%)     | 7/31 (23%)      |
| FIRST INCIDENCE  | 502          | 556            | 500            | 624             |
| <b>STATISTICAL TESTS</b>   |              |                |                |                 |
| POLY 3   | P=0.107N     | P=0.084N       | P=0.255N       | P=0.070N        |
| POLY 1.5   | P=0.108N     | P=0.101N       | P=0.257N       | P=0.076N        |
| POLY 6   | P=0.109N     | P=0.068N       | P=0.248N       | P=0.064N        |
| RAO-SCOTT  | P=0.119N     | P=0.099N       | P=0.266N       | P=0.085N        |
| LITTER C-A/FISHERS   | P=0.393N     | P=0.388N       | P=0.611        | P=0.388N        |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Skin</b>  |              |                |                |                 |
| Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma |              |                |                |                 |
| <b>TUMOR RATES</b>   | #            | #              | #              | #               |
| 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  | ---          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b>   |              |                |                |                 |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Skin</b>              |              |                |                |                 |
| <b>Fibroma</b>           |              |                |                |                 |
| <b>TUMOR RATES</b>       | #            | #              | #              | #               |
| 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)          | 1/40.87      | 2/43.76        | 0/40.34        | 0/42.04         |
| POLY-3 PERCENT (g)       | 2.5%         | 4.6%           | 0%             | 0%              |
| TERMINAL (d)             | 1/30 (3%)    | 1/33 (3%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE          | 730 (T)      | 701            | ---            | ---             |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| POLY 3                   | P=0.184N     | P=0.524        | P=0.503N       | P=0.494N        |
| POLY 1.5                 | P=0.186N     | P=0.515        | P=0.502N       | P=0.497N        |
| POLY 6                   | P=0.182N     | P=0.534        | P=0.503N       | P=0.492N        |
| RAO-SCOTT                | P=0.256N     | P=0.566        | P=0.565N       | P=0.566N        |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Skin</b>  |              |                |                |                 |
| Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma |              |                |                |                 |
| <b>TUMOR RATES</b>   | #            | #              | #              | #               |
| OVERALL (a)  | 2/50 (4%)    | 2/50 (4%)      | 0/50 (0%)      | 0/50 (0%)       |
| LITTERS (b)  | 2/25 (8%)    | 2/25 (8%)      | 0/25 (0%)      | 0/25 (0%)       |
| POLY-3 RATE (c)  | 2/40.95      | 2/43.76        | 0/40.34        | 0/42.04         |
| POLY-3 PERCENT (g)   | 4.9%         | 4.6%           | 0%             | 0%              |
| TERMINAL (d)   | 1/30 (3%)    | 1/33 (3%)      | 0/31 (0%)      | 0/31 (0%)       |
| FIRST INCIDENCE  | 711          | 701            | ---            | ---             |
| <b>STATISTICAL TESTS</b>   |              |                |                |                 |
| POLY 3   | P=0.085N     | P=0.670N       | P=0.240N       | P=0.231N        |
| POLY 1.5   | P=0.086N     | P=0.679N       | P=0.239N       | P=0.234N        |
| POLY 6   | P=0.085N     | P=0.661N       | P=0.240N       | P=0.229N        |
| RAO-SCOTT  | P=0.145N     | P=0.681N       | P=0.321N       | P=0.318N        |
| LITTER C-A/FISHERS   | P=0.084N     | P=0.695        | P=0.245N       | P=0.245N        |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Skin</b>              |              |                |                |                 |
| <b>Lipoma</b>            |              |                |                |                 |
| <b>TUMOR RATES</b>       | #            | #              | #              | #               |
| 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          | ---          | ---            | ---            | ---             |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| 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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                 | Females      |                |                |                 |
|--------------------------------------|--------------|----------------|----------------|-----------------|
|                                      | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Thyroid Gland: C-Cell Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                   |              |                |                |                 |
| OVERALL (a)                          | 5/50 (10%)   | 13/50 (26%)    | 13/49 (27%)    | 8/50 (16%)      |
| LITTERS (b)                          | 4/25 (16%)   | 12/25 (48%)    | 10/25 (40%)    | 8/25 (32%)      |
| POLY-3 RATE (c)                      | 5/41.23      | 13/43.76       | 13/40.75       | 8/43.35         |
| POLY-3 PERCENT (g)                   | 12.1%        | 29.7%          | 31.9%          | 18.5%           |
| TERMINAL (d)                         | 2/30 (7%)    | 12/33 (36%)    | 8/31 (26%)     | 5/31 (16%)      |
| FIRST INCIDENCE                      | 676          | 701            | 585            | 583             |
| <b>STATISTICAL TESTS</b>             |              |                |                |                 |
| POLY 3                               | P=0.466      | P=0.040*       | P=0.026*       | P=0.307         |
| POLY 1.5                             | P=0.443      | P=0.037*       | P=0.026*       | P=0.294         |
| POLY 6                               | P=0.494      | P=0.043*       | P=0.028*       | P=0.322         |
| RAO-SCOTT                            | P=0.451      | P=0.057        | P=0.040*       | P=0.321         |
| LITTER C-A/FISHERS                   | P=0.309      | P=0.016*       | P=0.057        | P=0.160         |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE                                   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Thyroid Gland: C-Cell Carcinoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                     |              |                |                |                 |
| OVERALL (a)                            | 2/50 (4%)    | 2/50 (4%)      | 2/49 (4%)      | 4/50 (8%)       |
| LITTERS (b)                            | 2/25 (8%)    | 2/25 (8%)      | 2/25 (8%)      | 4/25 (16%)      |
| POLY-3 RATE (c)                        | 2/40.96      | 2/44.00        | 2/39.71        | 4/42.04         |
| POLY-3 PERCENT (g)                     | 4.9%         | 4.6%           | 5%             | 9.5%            |
| TERMINAL (d)                           | 1/30 (3%)    | 1/33 (3%)      | 1/31 (3%)      | 4/31 (13%)      |
| FIRST INCIDENCE                        | 708          | 630            | 716            | 730 (T)         |
| <b>STATISTICAL TESTS</b>               |              |                |                |                 |
| POLY 3                                 | P=0.220      | P=0.668N       | P=0.683        | P=0.349         |
| POLY 1.5                               | P=0.221      | P=0.678N       | P=0.684        | P=0.344         |
| POLY 6                                 | P=0.218      | P=0.657N       | P=0.685        | P=0.352         |
| RAO-SCOTT                              | P=0.228      | P=0.651N       | P=0.659        | P=0.344         |
| LITTER C-A/FISHERS                     | P=0.215      | P=0.695        | P=0.695        | P=0.334         |

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Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

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| DOSE  | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Thyroid Gland: C-Cell<br/>Carcinoma or Adenoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                                    |              |                |                |                 |
| OVERALL (a)   | 7/50 (14%)   | 15/50 (30%)    | 14/49 (29%)    | 11/50 (22%)     |
| LITTERS (b)   | 6/25 (24%)   | 13/25 (52%)    | 11/25 (44%)    | 11/25 (44%)     |
| POLY-3 RATE (c)                                       | 7/41.32      | 15/44.12       | 14/40.75       | 11/43.35        |
| POLY-3 PERCENT (g)                                    | 16.9%        | 34%            | 34.4%          | 25.4%           |
| TERMINAL (d)  | 3/30 (10%)   | 13/33 (39%)    | 9/31 (29%)     | 8/31 (26%)      |
| FIRST INCIDENCE                                       | 676          | 630            | 585            | 583             |
| <b>STATISTICAL TESTS</b>                              |              |                |                |                 |
| POLY 3  | P=0.375      | P=0.057        | P=0.057        | P=0.247         |
| POLY 1.5  | P=0.356      | P=0.051        | P=0.057        | P=0.234         |
| POLY 6  | P=0.397      | P=0.063        | P=0.060        | P=0.261         |
| RAO-SCOTT   | P=0.369      | P=0.073        | P=0.072        | P=0.260         |
| LITTER C-A/FISHERS                                    | P=0.195      | P=0.040*       | P=0.116        | P=0.116         |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Uterus Carcinoma</b>  |              |                |                |                 |
| <b>TUMOR RATES</b>       | #            | #              | #              | #               |
| OVERALL (a)              | 3/50 (6%)    | 0/50 (0%)      | 2/50 (4%)      | 5/50 (10%)      |
| LITTERS (b)              | 2/25 (8%)    | 0/25 (0%)      | 2/25 (8%)      | 5/25 (20%)      |
| POLY-3 RATE (c)          | 3/40.87      | 0/43.65        | 2/40.34        | 5/42.72         |
| POLY-3 PERCENT (g)       | 7.3%         | 0%             | 5%             | 11.7%           |
| TERMINAL (d)             | 3/30 (10%)   | 0/33 (0%)      | 2/31 (7%)      | 3/31 (10%)      |
| FIRST INCIDENCE          | 730 (T)      | ---            | 730 (T)        | 511             |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| POLY 3                   | P=0.109      | P=0.107N       | P=0.506N       | P=0.380         |
| POLY 1.5                 | P=0.110      | P=0.111N       | P=0.505N       | P=0.371         |
| POLY 6                   | P=0.108      | P=0.102N       | P=0.506N       | P=0.390         |
| RAO-SCOTT                | P=0.170      | P=0.173N       | P=0.528N       | P=0.421         |
| LITTER C-A/FISHERS       | P=0.043*     | P=0.245N       | P=0.695        | P=0.209         |

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                      | Females      |                |                |                 |
|---------------------------|--------------|----------------|----------------|-----------------|
|                           | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Uterus</b>             |              |                |                |                 |
| <b>Polyp Stromal</b>      |              |                |                |                 |
| <b>TUMOR RATES</b>        | #            | #              | #              | #               |
| <b>OVERALL (a)</b>        | 5/50 (10%)   | 4/50 (8%)      | 7/50 (14%)     | 8/50 (16%)      |
| <b>LITTERS (b)</b>        | 4/25 (16%)   | 4/25 (16%)     | 7/25 (28%)     | 7/25 (28%)      |
| <b>POLY-3 RATE (c)</b>    | 5/41.37      | 4/44.37        | 7/41.02        | 8/42.33         |
| <b>POLY-3 PERCENT (g)</b> | 12.1%        | 9%             | 17.1%          | 18.9%           |
| <b>TERMINAL (d)</b>       | 3/30 (10%)   | 2/33 (6%)      | 6/31 (19%)     | 7/31 (23%)      |
| <b>FIRST INCIDENCE</b>    | 612          | 620            | 500            | 652             |
| <b>STATISTICAL TESTS</b>  |              |                |                |                 |
| <b>POLY 3</b>             | P=0.145      | P=0.456N       | P=0.371        | P=0.288         |
| <b>POLY 1.5</b>           | P=0.148      | P=0.473N       | P=0.374        | P=0.283         |
| <b>POLY 6</b>             | P=0.141      | P=0.438N       | P=0.369        | P=0.292         |
| <b>RAO-SCOTT</b>          | P=0.162      | P=0.456N       | P=0.373        | P=0.296         |
| <b>LITTER C-A/FISHERS</b> | P=0.144      | P=0.649        | P=0.248        | P=0.248         |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                                    | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Uterus</b>                           |              |                |                |                 |
| <b>Sarcoma Stromal or Polyp Stromal</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                      | #            | #              | #              | #               |
| <b>OVERALL (a)</b>                      | 6/50 (12%)   | 4/50 (8%)      | 7/50 (14%)     | 8/50 (16%)      |
| <b>LITTERS (b)</b>                      | 5/25 (20%)   | 4/25 (16%)     | 7/25 (28%)     | 7/25 (28%)      |
| <b>POLY-3 RATE (c)</b>                  | 6/41.58      | 4/44.37        | 7/41.02        | 8/42.33         |
| <b>POLY-3 PERCENT (g)</b>               | 14.4%        | 9%             | 17.1%          | 18.9%           |
| <b>TERMINAL (d)</b>                     | 3/30 (10%)   | 2/33 (6%)      | 6/31 (19%)     | 7/31 (23%)      |
| <b>FIRST INCIDENCE</b>                  | 612          | 620            | 500            | 652             |
| <b>STATISTICAL TESTS</b>                |              |                |                |                 |
| <b>POLY 3</b>                           | P=0.213      | P=0.329N       | P=0.489        | P=0.399         |
| <b>POLY 1.5</b>                         | P=0.218      | P=0.344N       | P=0.493        | P=0.395         |
| <b>POLY 6</b>                           | P=0.206      | P=0.313N       | P=0.484        | P=0.400         |
| <b>RAO-SCOTT</b>                        | P=0.231      | P=0.336N       | P=0.483        | P=0.401         |
| <b>LITTER C-A/FISHERS</b>               | P=0.223      | P=0.500N       | P=0.371        | P=0.371         |

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                           | Females      |                |                |                 |
|--------------------------------|--------------|----------------|----------------|-----------------|
|                                | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>Uterus</b>                  |              |                |                |                 |
| <b>Squamous Cell Carcinoma</b> |              |                |                |                 |
| <b>TUMOR RATES</b>             | #            | #              | #              | #               |
| 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)                | 2/41.08      | 0/43.65        | 0/40.34        | 2/42.13         |
| POLY-3 PERCENT (g)             | 4.9%         | 0%             | 0%             | 4.8%            |
| TERMINAL (d)                   | 1/30 (3%)    | 0/33 (0%)      | 0/31 (0%)      | 1/31 (3%)       |
| FIRST INCIDENCE                | 676          | ---            | ---            | 708             |
| <b>STATISTICAL TESTS</b>       |              |                |                |                 |
| POLY 3                         | P=0.490      | P=0.224N       | P=0.241N       | P=0.685N        |
| POLY 1.5                       | P=0.494      | P=0.229N       | P=0.240N       | P=0.689N        |
| POLY 6                         | P=0.487      | P=0.219N       | P=0.242N       | P=0.683N        |
| RAO-SCOTT                      | P=0.530      | P=0.320N       | P=0.326N       | P=0.691N        |
| 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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

Date Report Requested: 03/04/2019  
 Time Report Requested: 11:13:12  
 First Dose M/F: 01/30/12 / 01/31/12  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE  | Females      |                |                |                 |
|---|--------------|----------------|----------------|-----------------|
|   | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>All Organs</b>   |              |                |                |                 |
| <b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b> |              |                |                |                 |
| <b>TUMOR RATES</b>  | #            | #              | #              | #               |
| 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        | 2/40.71        | 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   | ---          | ---            | 642            | ---             |
| <b>STATISTICAL TESTS</b>  |              |                |                |                 |
| POLY 3  | P=0.602      | (e)            | P=0.236        | (e)             |
| POLY 1.5  | P=0.599      | (e)            | P=0.236        | (e)             |
| POLY 6  | P=0.604      | (e)            | P=0.238        | (e)             |
| RAO-SCOTT   | P=0.637      | (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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 03/04/2019

Time Report Requested: 11:13:12

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE   | Females      |                |                |                 |
|--|--------------|----------------|----------------|-----------------|
|  | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>All Organs</b>  |              |                |                |                 |
| <b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b> |              |                |                |                 |
| <b>TUMOR RATES</b>   | #            | #              | #              | #               |
| OVERALL (a)  | 2/50 (4%)    | 4/50 (8%)      | 1/50 (2%)      | 3/50 (6%)       |
| LITTERS (b)  | 2/25 (8%)    | 4/25 (16%)     | 1/25 (4%)      | 3/25 (12%)      |
| POLY-3 RATE (c)  | 2/41.39      | 4/45.07        | 1/40.34        | 3/42.85         |
| POLY-3 PERCENT (g)   | 4.8%         | 8.9%           | 2.5%           | 7%              |
| TERMINAL (d)   | 0/30 (0%)    | 0/33 (0%)      | 1/31 (3%)      | 1/31 (3%)       |
| FIRST INCIDENCE  | 624          | 403            | 730 (T)        | 583             |
| <b>STATISTICAL TESTS</b>   |              |                |                |                 |
| POLY 3   | P=0.551      | P=0.377        | P=0.509N       | P=0.516         |
| POLY 1.5   | P=0.548      | P=0.362        | P=0.506N       | P=0.509         |
| POLY 6   | P=0.554      | P=0.392        | P=0.512N       | P=0.522         |
| RAO-SCOTT  | P=0.540      | P=0.379        | P=0.491N       | P=0.506         |
| LITTER C-A/FISHERS   | P=0.545      | P=0.334        | P=0.500N       | P=0.500         |

Experiment Number: 03038 - 03

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TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                      | Females      |                |                |                 |
|---------------------------|--------------|----------------|----------------|-----------------|
|                           | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>All Organs</b>         |              |                |                |                 |
| <b>Benign Tumors</b>      |              |                |                |                 |
| <b>TUMOR RATES</b>        | #            | #              | #              | #               |
| <b>OVERALL (a)</b>        | 39/50 (78%)  | 40/50 (80%)    | 36/50 (72%)    | 32/50 (64%)     |
| <b>LITTERS (b)</b>        | 23/25 (92%)  | 24/25 (96%)    | 23/25 (92%)    | 21/25 (84%)     |
| <b>POLY-3 RATE (c)</b>    | 39/47.11     | 40/46.97       | 36/45.80       | 32/47.75        |
| <b>POLY-3 PERCENT (g)</b> | 82.8%        | 85.2%          | 78.6%          | 67%             |
| <b>TERMINAL (d)</b>       | 23/30 (77%)  | 28/33 (85%)    | 22/31 (71%)    | 18/31 (58%)     |
| <b>FIRST INCIDENCE</b>    | 494          | 392            | 500            | 200             |
| <b>STATISTICAL TESTS</b>  |              |                |                |                 |
| <b>POLY 3</b>             | P=0.017N*    | P=0.487        | P=0.400N       | P=0.058N        |
| <b>POLY 1.5</b>           | P=0.019N*    | P=0.509        | P=0.372N       | P=0.060N        |
| <b>POLY 6</b>             | P=0.017N*    | P=0.441        | P=0.417N       | P=0.063N        |
| <b>RAO-SCOTT</b>          | P=0.027N*    | P=0.494        | P=0.411N       | P=0.076N        |
| <b>LITTER C-A/FISHERS</b> | P=0.158N     | P=0.500        | P=0.695        | P=0.334N        |

Experiment Number: 03038 - 03  
 Test Type: CHRONIC  
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Sodium Tungstate Dihydrate  
 CAS Number: 10213-10-2

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                     | Females      |                |                |                 |
|--------------------------|--------------|----------------|----------------|-----------------|
|                          | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>All Organs</b>        |              |                |                |                 |
| <b>Malignant Tumors</b>  |              |                |                |                 |
| <b>TUMOR RATES</b>       | #            | #              | #              | #               |
| OVERALL (a)              | 17/50 (34%)  | 11/50 (22%)    | 10/50 (20%)    | 14/50 (28%)     |
| LITTERS (b)              | 13/25 (52%)  | 10/25 (40%)    | 9/25 (36%)     | 12/25 (48%)     |
| POLY-3 RATE (c)          | 17/44.00     | 11/47.00       | 10/42.23       | 14/44.34        |
| POLY-3 PERCENT (g)       | 38.6%        | 23.4%          | 23.7%          | 31.6%           |
| TERMINAL (d)             | 9/30 (30%)   | 3/33 (9%)      | 5/31 (16%)     | 8/31 (26%)      |
| FIRST INCIDENCE          | 286          | 300            | 463            | 478             |
| <b>STATISTICAL TESTS</b> |              |                |                |                 |
| POLY 3                   | P=0.401N     | P=0.087N       | P=0.100N       | P=0.317N        |
| POLY 1.5                 | P=0.395N     | P=0.103N       | P=0.098N       | P=0.329N        |
| POLY 6                   | P=0.409N     | P=0.072N       | P=0.100N       | P=0.306N        |
| RAO-SCOTT                | P=0.399N     | P=0.103N       | P=0.115N       | P=0.327N        |
| LITTER C-A/FISHERS       | P=0.500N     | P=0.285N       | P=0.197N       | P=0.500N        |



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 CAS Number: 10213-10-2

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

| DOSE                               | Females      |                |                |                 |
|------------------------------------|--------------|----------------|----------------|-----------------|
|                                    | 0mg/L female | 250mg/L female | 500mg/L female | 1000mg/L female |
| <b>All Organs</b>                  |              |                |                |                 |
| <b>Malignant and Benign Tumors</b> |              |                |                |                 |
| <b>TUMOR RATES</b>                 | #            | #              | #              | #               |
| <b>OVERALL (a)</b>                 | 47/50 (94%)  | 45/50 (90%)    | 39/50 (78%)    | 39/50 (78%)     |
| <b>LITTERS (b)</b>                 | 25/25 (100%) | 25/25 (100%)   | 24/25 (96%)    | 24/25 (96%)     |
| <b>POLY-3 RATE (c)</b>             | 47/49.15     | 45/49.40       | 39/46.55       | 39/48.50        |
| <b>POLY-3 PERCENT (g)</b>          | 95.6%        | 91.1%          | 83.8%          | 80.4%           |
| <b>TERMINAL (d)</b>                | 28/30 (93%)  | 29/33 (88%)    | 24/31 (77%)    | 23/31 (74%)     |
| <b>FIRST INCIDENCE</b>             | 286          | 300            | 463            | 200             |
| <b>STATISTICAL TESTS</b>           |              |                |                |                 |
| <b>POLY 3</b>                      | P=0.009N**   | P=0.305N       | P=0.051N       | P=0.018N*       |
| <b>POLY 1.5</b>                    | P=0.008N**   | P=0.310N       | P=0.036N*      | P=0.017N*       |
| <b>POLY 6</b>                      | P=0.011N*    | P=0.318N       | P=0.062N       | P=0.022N*       |
| <b>RAO-SCOTT</b>                   | P=0.016N*    | P=0.334N       | P=0.072N       | P=0.032N*       |
| <b>LITTER C-A/FISHERS</b>          | P=0.234N     | P=1.000        | P=0.500N       | P=0.500N        |

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**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 \*\*\*