

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:45:58

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

Lab: BAT

Final Version 2

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: 3.0.2.3_002
PWG Approval Date: NONE

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Harlan Sprague Dawley RATS MALE

0mg/L male

250mg/L male

500mg/L male

1000mg/L male

Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	17	14	10	8
Natural Death	21	10	16	13
Survivors				
Natural Death			1	
Terminal Sacrifice	12	26	23	29
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(49)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Lymphoma Malignant				1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Lymphoma Malignant				1 (2%)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)			
Lymphoma Malignant				1 (2%)
Liver	(50)	(50)	(50)	(50)
Carcinosarcoma, Metastatic, Zymbal'S Gland		1 (2%)		
Cholangioma	1 (2%)			
Hepatocellular Adenoma	1 (2%)			1 (2%)
Leukemia Mononuclear	1 (2%)		2 (4%)	
Lymphoma Malignant	1 (2%)		1 (2%)	2 (4%)
Mesentery	(2)	(5)	(2)	(3)
Paraganglioma		1 (20%)		
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (33%)
Pancreas	(50)	(50)	(50)	(50)

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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	1 (2%)			1 (2%)
Acinus, Adenocarcinoma	1 (2%)	3 (6%)		2 (4%)
Acinus, Adenocarcinoma, Multiple				1 (2%)
Acinus, Adenoma	6 (12%)	5 (10%)	5 (10%)	5 (10%)
Acinus, Adenoma, Multiple	8 (16%)	15 (30%)	15 (30%)	11 (22%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Tongue	(0)	(1)	(1)	(0)
Squamous Cell Papilloma			1 (100%)	

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(49)	(49)
Heart	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Schwannoma Malignant				1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Leukemia Mononuclear	1 (2%)		2 (4%)	
Lymphoma Malignant				2 (4%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Ganglioneuroma	1 (2%)			
Leukemia Mononuclear			1 (2%)	
Pheochromocytoma Benign	10 (20%)	8 (16%)	11 (22%)	8 (16%)
Pheochromocytoma Complex				1 (2%)
Pheochromocytoma Malignant	2 (4%)	2 (4%)	2 (4%)	3 (6%)
Bilateral, Pheochromocytoma Benign			1 (2%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)

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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Adenoma	1 (2%)	3 (6%)	2 (4%)	5 (10%)
Adenoma, Multiple	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Carcinoma	1 (2%)	3 (6%)	4 (8%)	
Parathyroid Gland	(43)	(45)	(45)	(45)
Adenoma		1 (2%)		2 (4%)
Pituitary Gland	(50)	(50)	(50)	(50)
Leukemia Mononuclear			2 (4%)	
Schwannoma Malignant, Metastatic, Peripheral Nerve		1 (2%)		
Pars Distalis, Adenoma	8 (16%)	5 (10%)	5 (10%)	7 (14%)
Pars Distalis, Carcinoma	1 (2%)	2 (4%)	1 (2%)	
Pars Intermedia, Adenoma	1 (2%)			1 (2%)
Pars Intermedia, Carcinoma			1 (2%)	
Pars Nervosa, Schwannoma Malignant	1 (2%)			
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	4 (8%)	3 (6%)	5 (10%)	5 (10%)
C-cell, Adenoma, Multiple				1 (2%)
C-cell, Carcinoma		1 (2%)	4 (8%)	3 (6%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(49)
Penis	(0)	(0)	(1)	(0)
Preputial Gland	(50)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Lymphoma Malignant				1 (2%)
Schwannoma Malignant, Metastatic, Spinal Cord		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)			
Lymphoma Malignant				1 (2%)

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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Testis	(50)	(50)	(50)	(49)
Lymphoma Malignant				1 (2%)
Interstitial Cell, Adenoma	1 (2%)	1 (2%)		

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Carcinosarcoma, Metastatic, Zymbal'S Gland		1 (2%)		
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant				1 (2%)
Lymph Node	(3)	(5)	(3)	(3)
Mediastinal, Leukemia Mononuclear			1 (33%)	
Mediastinal, Lymphoma Malignant	1 (33%)			
Pancreatic, Lymphoma Malignant	1 (33%)			
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	1 (2%)			2 (4%)
Lymph Node, Mesenteric	(50)	(50)	(50)	(49)
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	1 (2%)			2 (4%)
Spleen	(50)	(50)	(50)	(50)
Leukemia Mononuclear	1 (2%)		2 (4%)	
Lymphoma Malignant			1 (2%)	2 (4%)
Thymus	(48)	(48)	(49)	(50)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Leukemia Mononuclear			1 (2%)	
Lymphoma Malignant				1 (2%)
Thymoma Malignant		1 (2%)		

INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(47)	(50)	(49)
Adenocarcinoma				1 (2%)
Fibroadenoma		2 (4%)	1 (2%)	

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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Skin	(50)	(50)	(50)	(50)
Basal Cell Carcinoma				1 (2%)
Keratoacanthoma	1 (2%)			1 (2%)
Squamous Cell Papilloma		1 (2%)		
Subcutaneous Tissue, Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Subcutaneous Tissue, Fibroma	3 (6%)	2 (4%)	2 (4%)	2 (4%)
Subcutaneous Tissue, Lipoma		2 (4%)		2 (4%)
Subcutaneous Tissue, Sarcoma		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant, Metastatic, Spinal Cord		1 (2%)		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Tarsal, Osteoma				1 (2%)
Skeletal Muscle	(0)	(1)	(0)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Glioma Malignant	2 (4%)			1 (2%)
Granular Cell Tumor Malignant	1 (2%)			
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant				1 (2%)
Oligodendroglioma Malignant				1 (2%)
Cranial Nerve, Schwannoma Malignant		1 (2%)	1 (2%)	
Peripheral Nerve	(1)	(3)	(0)	(0)
Spinal Cord	(1)	(1)	(0)	(0)
Schwannoma Malignant		1 (100%)		

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
Alveolar/Bronchiolar Adenoma	1 (2%)	1 (2%)		1 (2%)
Alveolar/Bronchiolar Carcinoma	1 (2%)			1 (2%)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Carcinosarcoma, Metastatic, Zymbal'S Gland		1 (2%)		
Leukemia Mononuclear	1 (2%)		2 (4%)	
Lymphoma Malignant				2 (4%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Brain		1 (2%)		
Harderian Gland	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Schwannoma Malignant, Metastatic, Brain		1 (2%)		
Zymbal's Gland	(1)	(1)	(1)	(0)
Adenocarcinoma	1 (100%)			
Adenoma			1 (100%)	
Carcinosarcoma		1 (100%)		
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant				2 (4%)
Nephroblastoma			1 (2%)	
Oncocytoma Benign				1 (2%)
Renal Tubule, Adenoma	2 (4%)	1 (2%)		1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	

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* Number of animals with any tissue examined microscopically

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Harlan Sprague Dawley RATS MALE

0mg/L male

250mg/L male

500mg/L male

1000mg/L male

SYSTEMIC LESIONS

Multiple Organ

*(50)

*(50)

*(50)

*(50)

Leukemia Mononuclear

1 (2%)

2 (4%)

Lymphoma Malignant

1 (2%)

1 (2%)

2 (4%)

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* Number of animals with any tissue examined microscopically

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Harlan Sprague Dawley RATS MALE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	36	42	37	38
Total Primary Neoplasms	65	68	68	76
Total Animals with Benign Neoplasms	29	36	31	29
Total Benign Neoplasms	50	52	50	58
Total Animals with Malignant Neoplasms	14	14	14	17
Total Malignant Neoplasms	15	16	18	18
Total Animals with Metastatic Neoplasms		3	1	1
Total Metastatic Neoplasms		8	4	1
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

*** END OF MALE ***

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b - Primary tumors: all tumors except metastatic tumors

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Harlan Sprague Dawley RATS FEMALE

0mg/L female

250mg/L female

500mg/L female

1000mg/L female

Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	13	10	13	9
Natural Death	7	7	6	10
Survivors				
Moribund Sacrifice				1
Terminal Sacrifice	30	33	31	30
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(49)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small	(1)	(0)	(0)	(0)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(49)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Cholangioma			1 (2%)	1 (2%)
Hepatocellular Adenoma	1 (2%)	2 (4%)		1 (2%)
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	2 (4%)	3 (6%)		3 (6%)
Mesentery	(1)	(0)	(1)	(2)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (100%)			
Leiomyosarcoma, Metastatic, Vagina			1 (100%)	
Pancreas	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Lymphoma Malignant				1 (2%)
Salivary Glands	(50)	(50)	(49)	(50)

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Harlan Sprague Dawley RATS FEMALE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Lymphoma Malignant				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(50)	(49)
Heart	(50)	(50)	(49)	(50)
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Schwannoma Malignant	2 (4%)			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Lymphoma Malignant	1 (2%)	1 (2%)		
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	1 (2%)	3 (6%)		1 (2%)
Pheochromocytoma Malignant	1 (2%)	1 (2%)		
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)		2 (4%)
Carcinoma	1 (2%)			1 (2%)
Parathyroid Gland	(46)	(47)	(44)	(44)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Pituitary Gland	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Pars Distalis, Adenoma	16 (32%)	9 (18%)	12 (24%)	9 (18%)
Pars Distalis, Adenoma, Multiple			1 (2%)	1 (2%)
Pars Distalis, Carcinoma	1 (2%)	2 (4%)		
Thyroid Gland	(50)	(50)	(49)	(50)
Schwannoma Malignant, Metastatic, Peripheral Nerve		1 (2%)		
Bilateral, C-cell, Adenoma	1 (2%)	1 (2%)		1 (2%)
C-cell, Adenoma	4 (8%)	11 (22%)	13 (27%)	7 (14%)
C-cell, Adenoma, Multiple		1 (2%)		

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C-cell, Carcinoma	2 (4%)	2 (4%)	2 (4%)	4 (8%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Clitoral Gland	(50)	(50)	(50)	(49)
Carcinoma		1 (2%)		
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Malignant	1 (2%)			
Granulosa-Theca Tumor Malignant	1 (2%)			
Lymphoma Malignant				2 (4%)
Paraovarian Tissue, Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Adenocarcinoma	3 (6%)		2 (4%)	5 (10%)
Adenoma				1 (2%)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Leukemia Mononuclear			1 (2%)	
Lymphoma Malignant	1 (2%)	1 (2%)		1 (2%)
Squamous Cell Carcinoma	1 (2%)			2 (4%)
Cervix, Sarcoma Stromal	1 (2%)			
Cervix, Squamous Cell Carcinoma	1 (2%)			
Cervix, Endometrium, Polyp Stromal	1 (2%)			
Endometrium, Polyp Stromal	3 (6%)	4 (8%)	7 (14%)	7 (14%)
Endometrium, Polyp Stromal, Multiple	1 (2%)			1 (2%)
Vagina	(49)	(50)	(50)	(50)
Leiomyosarcoma			1 (2%)	
Polyp	1 (2%)			

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Harlan Sprague Dawley RATS FEMALE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Lymphoma Malignant	1 (2%)			
Lymph Node	(3)	(3)	(1)	(2)
Axillary, Lymphoma Malignant				1 (50%)
Bronchial, Lymphoma Malignant				1 (50%)
Lumbar, Lymphoma Malignant				1 (50%)
Mediastinal, Lymphoma Malignant	1 (33%)	1 (33%)		
Pancreatic, Lymphoma Malignant	1 (33%)			
Renal, Leiomyosarcoma, Metastatic, Vagina			1 (100%)	
Lymph Node, Mandibular	(50)	(50)	(49)	(50)
Lymphoma Malignant	1 (2%)	2 (4%)		2 (4%)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Lymphoma Malignant	2 (4%)	2 (4%)		2 (4%)
Spleen	(50)	(50)	(50)	(50)
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	2 (4%)	3 (6%)		3 (6%)
Thymus	(47)	(49)	(49)	(50)
Lymphoma Malignant				1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenocarcinoma	2 (4%)	1 (2%)	2 (4%)	2 (4%)
Adenoma	3 (6%)		3 (6%)	2 (4%)
Fibroadenoma	22 (44%)	26 (52%)	15 (30%)	15 (30%)
Fibroadenoma, Multiple	8 (16%)	3 (6%)	8 (16%)	3 (6%)
Skin	(50)	(50)	(50)	(50)
Subcutaneous Tissue, Fibroma	1 (2%)	2 (4%)		
Subcutaneous Tissue, Fibrosarcoma	1 (2%)			
Subcutaneous Tissue, Hemangiopericytoma	1 (2%)			
Subcutaneous Tissue, Osteosarcoma	1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

Time Report Requested: 10:45:58

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

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(0)	(1)	(0)
Diaphragm, Leiomyosarcoma, Metastatic, Vagina			1 (100%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Glioma Malignant				1 (2%)
Schwannoma Malignant, Metastatic, Peripheral Nerve		1 (2%)		
Peripheral Nerve	(0)	(1)	(0)	(0)
Trigeminal, Schwannoma Malignant		1 (100%)		
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(49)	(50)
Adenocarcinoma, Metastatic, Mammary Gland	1 (2%)			
Adenocarcinoma, Metastatic, Uterus			1 (2%)	
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (2%)			
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Lymphoma Malignant		1 (2%)	1 (2%)	1 (2%)
Nephroblastoma, Metastatic, Kidney		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(49)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

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

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
Schwannoma Malignant, Metastatic, Peripheral Nerve		1 (2%)		
Harderian Gland	(50)	(50)	(50)	(50)
Lymphoma Malignant				1 (2%)
Bilateral, Schwannoma Malignant, Metastatic, Peripheral Nerve		1 (2%)		
Zymbal's Gland	(0)	(0)	(1)	(0)
Adenocarcinoma			1 (100%)	

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Leukemia Mononuclear			1 (2%)	
Lipoma				1 (2%)
Lymphoma Malignant		2 (4%)		1 (2%)
Nephroblastoma		1 (2%)		
Urinary Bladder	(50)	(50)	(50)	(50)
Leiomyosarcoma, Metastatic, Vagina			1 (2%)	
Urothelium, Papilloma		1 (2%)		

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant	2 (4%)	4 (8%)	1 (2%)	3 (6%)

a - Number of animals examined microscopically at site and number of animals with lesion

* Number of animals with any tissue examined microscopically

Experiment Number: 03038 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 06/26/2019

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

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	47	45	39	39
Total Primary Neoplasms	86	78	72	71
Total Animals with Benign Neoplasms	39	40	36	32
Total Benign Neoplasms	65	64	61	53
Total Animals with Malignant Neoplasms	17	11	10	14
Total Malignant Neoplasms	21	14	11	18
Total Animals with Metastatic Neoplasms	2	3	2	
Total Metastatic Neoplasms	5	6	11	
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors