

Version: Nov2014
Contract/Lab: All Laboratories
Species: RATS
Strain: Wistar Han
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Southern Research Institute	052020903	08/26/08	729	49(3)	36(671)	673.4	Pentabromodiphenyl oxide (technical) (DE 71)
Battelle Columbus Laboratory	052032003	07/25/07	727	50(3)	33(642)	662.9	Tetrabromobisphenol A
Female							
Southern Research Institute	052020903	08/26/08	732	50(5)	37(678)	389.6	Pentabromodiphenyl oxide (technical) (DE 71)
Battelle Columbus Laboratory	052032003	07/26/07	728	50(5)	34(678)	375.2	Tetrabromobisphenol A

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		Male			Female		
#All Organs:							
Benign Tumors							
		33/49 (67%)	30/50 (60%)		37/50 (74%)	38/50 (76%)	
Overall Incidence	Total	63/99 (63.64%)	Mean 63.67%	SD 5.2%	Total	75/100 (75%)	Mean 75% SD 1.41%
.....							
#All Organs:							
Malignant Tumors							
		13/49 (27%)	8/50 (16%)		10/50 (20%)	10/50 (20%)	
Overall Incidence	Total	21/99 (21.21%)	Mean 21.27%	SD 7.45%	Total	20/100 (20%)	Mean 20% SD 0%
.....							
#All Organs:							
Malignant and Benign Tumors							
		36/49 (73%)	34/50 (68%)		40/50 (80%)	40/50 (80%)	
Overall Incidence	Total	70/99 (70.71%)	Mean 70.73%	SD 3.87%	Total	80/100 (80%)	Mean 80% SD 0%
.....							
#All Organs:							
Hemangioma							
		1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	Total	0/100 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma							
		8/49 (16%)	3/50 (6%)		2/50 (4%)	2/50 (4%)	
Overall Incidence	Total	11/99 (11.11%)	Mean 11.16%	SD 7.3%	Total	4/100 (4%)	Mean 4% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		9/49 (18%)	4/50 (8%)		2/50 (4%)	2/50 (4%)	
Overall Incidence	Total	13/99 (13.13%)	Mean 13.18%	SD 7.33%	Total	4/100 (4%)	Mean 4% SD 0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

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	Male				Female			
#All Organs:								
Histiocytic Sarcoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated								
		1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Mesothelioma: Benign, Malignant, NOS								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Mesothelioma: Malignant								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Osteoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%

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	Male				Female			
#All Organs:								
Osteosarcoma								
		0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#All Organs:								
Osteosarcoma or Osteoma								
		0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
*Adrenal Cortex:								
Adenoma								
		0/49 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 0%
.....								
*Adrenal Cortex:								
Carcinoma								
		1/49 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
*Adrenal Medulla:								
Pheochromocytoma Benign								
		0/49 (0%)	0/49 (0%)		1/50 (2%)	2/49 (4%)		
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	3/99 (3.03%)	Mean 3.04%	SD 1.47%
.....								
*Adrenal Medulla:								
Pheochromocytoma Complex								
		0/49 (0%)	0/49 (0%)		1/50 (2%)	0/49 (0%)		
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	1/99 (1.01%)	Mean 1%	SD 1.41%

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*Adrenal Medulla:									
Pheochromocytoma Malignant									
		1/49	(2%)	0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/98	(1.02%)	Mean 1.02%	SD 1.44%	Total	0/99	(0%)	Mean 0%
									SD 0%
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		1/49	(2%)	0/49	(0%)	2/50	(4%)	2/49	(4%)
Overall Incidence	Total	1/98	(1.02%)	Mean 1.02%	SD 1.44%	Total	4/99	(4.04%)	Mean 4.04%
									SD 0.06%
#Blood Vessel:									
Hemangiosarcoma									
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%
									SD 0%
*Bone Marrow:									
Hemangiosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
#Bone:									
Osteoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
#Bone:									
Osteosarcoma									
		0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%
									SD 1.41%

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#Bone:									
Osteosarcoma or Osteoma									
		0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1% SD 1.41%
.....									
#Bone:									
Sarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Glioma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Glioma Malignant									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Granular Cell Tumor Benign									
		1/49	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/99	(2.02%)	Mean 2.02%	SD 0.03%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Granular Cell Tumor Malignant									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%

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		Male			Female		
*Brain:							
Meningioma Malignant							
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0% SD 0%
.....							
*Brain:							
Meningioma: Benign, Malignant, NOS							
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0% SD 0%
.....							
*Brain:							
Oligodendroglioma, Glioma, or Astrocytoma							
		1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/100 (0%)	Mean 0% SD 0%
.....							
*Clitoral/Preputial Gland:							
Carcinoma							
		1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/99 (0%)	Mean 0% SD 0%
.....							
*Clitoral/Preputial Gland:							
Carcinoma or Adenoma							
		1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/99 (0%)	Mean 0% SD 0%
.....							
*Heart:							
Schwannoma Benign							
		0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1% SD 1.41%

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		Male				Female			
*Heart:									
Schwannoma NOS									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

#Intestine Small: Duodenum:									
Fibroma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%

#Intestine Small: Duodenum:									
Leiomyosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%
									SD 1.41%

#Intestine Small: Jejunum:									
Leiomyoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

#Intestine Small: Site Unspecified:									
Fibroma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%

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		Male				Female			
#Intestine Small: Site Unspecified:									
Leiomyoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%
									SD 1.41%

*Islets, Pancreatic:									
Adenoma									
		4/49	(8%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	5/99	(5.05%)	Mean 5.08%	SD 4.36%	Total	0/100	(0%)	Mean 0%
									SD 0%

*Islets, Pancreatic:									
Carcinoma									
		2/49	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/99	(2.02%)	Mean 2.04%	SD 2.89%	Total	0/100	(0%)	Mean 0%
									SD 0%

*Islets, Pancreatic:									
Carcinoma or Adenoma									
		6/49	(12%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	7/99	(7.07%)	Mean 7.12%	SD 7.24%	Total	0/100	(0%)	Mean 0%
									SD 0%

*Kidney: Pelvis and Transitional Epithelium:									
Papilloma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

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		Male				Female			
*Kidney: Renal Tubule: Adenoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Carcinoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Carcinoma or Adenoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Lipoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Liposarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Liver: Hepatocellular Adenoma									
		3/49	(6%)	0/50	(0%)	3/50	(6%)	1/50	(2%)
Overall Incidence	Total	3/99	(3.03%)	Mean 3.06%	SD 4.33%	Total	4/100	(4%)	Mean 4% SD 2.83%

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	Male					Female				
*Liver:										
Hepatocellular Carcinoma or Hepatocellular Adenoma										
		3/49 (6%)	0/50 (0%)			3/50 (6%)	1/50 (2%)			
Overall Incidence	Total	3/99 (3.03%)	Mean 3.06%	SD 4.33%	Total	4/100 (4%)	Mean 4%	SD 2.83%		
.....										
*Liver:										
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma										
		3/49 (6%)	0/50 (0%)			3/50 (6%)	1/50 (2%)			
Overall Incidence	Total	3/99 (3.03%)	Mean 3.06%	SD 4.33%	Total	4/100 (4%)	Mean 4%	SD 2.83%		
.....										
*Lung:										
Alveolar/Bronchiolar Adenoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
*Lung:										
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Lymph Node:										
Hemangioma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Lymph Node, Mesenteric:										
Hemangioma										
		1/49 (2%)	1/50 (2%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	Total	0/100 (0%)	Mean 0%	SD 0%		

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		Male			Female			
#Lymph Node, Mesenteric: Hemangiosarcoma								
Overall Incidence	Total	7/49 (14%) 8/99 (8.08%)	1/50 (2%) Mean 8.14%	SD 8.69%	Total	2/50 (4%) 3/100 (3%)	1/50 (2%) Mean 3%	SD 1.41%
#Mammary Gland: Adenoma								
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 4/100 (4%)	4/50 (8%) Mean 4%	SD 5.66%
#Mammary Gland: Carcinoma								
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%
#Mammary Gland: Carcinoma or Adenoma								
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 5/100 (5%)	4/50 (8%) Mean 5%	SD 4.24%
#Mammary Gland: Fibroadenoma								
Overall Incidence	Total	0/49 (0%) 1/99 (1.01%)	1/50 (2%) Mean 1%	SD 1.41%	Total	9/50 (18%) 17/100 (17%)	8/50 (16%) Mean 17%	SD 1.41%
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma								
Overall Incidence	Total	0/49 (0%) 1/99 (1.01%)	1/50 (2%) Mean 1%	SD 1.41%	Total	9/50 (18%) 21/100 (21%)	12/50 (24%) Mean 21%	SD 4.24%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#Mammary Gland:								
Fibroma, Fibroadenoma, Carcinoma, or Adenoma								
		0/49 (0%)	1/50 (2%)		10/50 (20%)	12/50 (24%)		
Overall Incidence	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	Total	22/100 (22%)	Mean 22%	SD 2.83%
.....								
#Mesentery:								
Hemangiosarcoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Mesentery:								
Lipoma								
		1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Mesentery:								
Schwannoma Malignant								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Nose:								
Chondroma								
		0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
*Nose:								
Olfactory Neuroblastoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Oral Mucosa: Squamous Cell Carcinoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary: Adenoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary: Cystadenoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary: Granulosa Cell Tumor Benign								
					1/50 (2%)	0/50 (0%)		
Overall Incidence					Total	1/100 (1%)	Mean 1%	SD 1.41%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

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Male					Female									
*Ovary:														
Granulosa Cell Tumor Malignant														
					1/50	(2%)			1/50	(2%)				
Overall Incidence					Total	2/100	(2%)	Mean	2%	SD 0%				
.....														
*Ovary:														
Granulosa Cell Tumor: Benign, Malignant, NOS														
					2/50	(4%)			1/50	(2%)				
Overall Incidence					Total	3/100	(3%)	Mean	3%	SD 1.41%				
.....														
*Ovary:														
Sex Cord Stromal Tumor, Benign														
					0/50	(0%)			2/50	(4%)				
Overall Incidence					Total	2/100	(2%)	Mean	2%	SD 2.83%				
.....														
*Ovary:														
Tubulostromal Adenoma														
					0/50	(0%)			0/50	(0%)				
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD 0%				
.....														
*Pancreas:														
Adenoma														
		1/46	(2%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/96	(2.08%)	Mean	2.09%	SD	0.12%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
*Pancreas:														
Carcinoma or Adenoma														
		1/46	(2%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/96	(2.08%)	Mean	2.09%	SD	0.12%	Total	0/100	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

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		Male			Female			
*Parathyroid Gland:								
Adenoma								
		2/47 (4%)	0/45 (0%)		1/49 (2%)	0/48 (0%)		
Overall Incidence	Total	2/92 (2.17%)	Mean 2.13%	SD 3.01%	Total	1/97 (1.03%)	Mean 1.02%	SD 1.44%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Adenoma								
		19/49 (39%)	21/50 (42%)		23/50 (46%)	21/50 (42%)		
Overall Incidence	Total	40/99 (40.4%)	Mean 40.39%	SD 2.28%	Total	44/100 (44%)	Mean 44%	SD 2.83%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Carcinoma								
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Carcinoma or Adenoma								
		19/49 (39%)	21/50 (42%)		23/50 (46%)	21/50 (42%)		
Overall Incidence	Total	40/99 (40.4%)	Mean 40.39%	SD 2.28%	Total	44/100 (44%)	Mean 44%	SD 2.83%
.....								
*Pituitary Gland: Pars Intermedia:								
Adenoma								
		0/49 (0%)	2/50 (4%)		1/50 (2%)	4/50 (8%)		
Overall Incidence	Total	2/99 (2.02%)	Mean 2%	SD 2.83%	Total	5/100 (5%)	Mean 5%	SD 4.24%
.....								
*Pituitary Gland: Pars Intermedia:								
Carcinoma or Adenoma								
		0/49 (0%)	2/50 (4%)		1/50 (2%)	4/50 (8%)		
Overall Incidence	Total	2/99 (2.02%)	Mean 2%	SD 2.83%	Total	5/100 (5%)	Mean 5%	SD 4.24%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
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Toxicology Data Management System
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		Male				Female			
*Prostate:									
Adenoma									
		0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%				
.....									
*Prostate:									
Carcinoma or Adenoma									
		0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%				
.....									
*Salivary Glands:									
Adenoma									
		1/46	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/96	(1.04%)	Mean 1.09%	SD 1.54%	Total 0/100	(0%)	Mean 0%	SD 0%
.....									
*Salivary Glands:									
Carcinoma									
		0/46	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total 1/100	(1%)	Mean 1%	SD 1.41%
.....									
*Salivary Glands:									
Carcinoma or Adenoma									
		1/46	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/96	(1.04%)	Mean 1.09%	SD 1.54%	Total 1/100	(1%)	Mean 1%	SD 1.41%
.....									
*Salivary Glands:									
Myoepithelioma									
		0/46	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/96	(1.04%)	Mean 1%	SD 1.41%	Total 0/100	(0%)	Mean 0%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/46	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
#Seminal Vesicle:									
Adenoma									
		0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%				
#Skeletal Muscle:									
Hemangiosarcoma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%
#Skeletal Muscle:									
Sarcoma									
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%
									SD 0%
#Skin:									
Basal Cell Adenoma									
		1/49	(2%)	2/50	(4%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	3/99	(3.03%)	Mean 3.02%	SD 1.39%	Total	1/100	(1%)	Mean 1%
									SD 1.41%
#Skin:									
Basal Cell Adenoma or Basosquamous Tumor Benign									
		1/49	(2%)	2/50	(4%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	3/99	(3.03%)	Mean 3.02%	SD 1.39%	Total	1/100	(1%)	Mean 1%
									SD 1.41%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male					Female								
#Skin:														
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
		1/49	(2%)	2/50	(4%)			1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	3/99 (3.03%)		Mean	3.02%	SD	1.39%	Total	1/100 (1%)		Mean	1%	SD	1.41%
.....														
#Skin:														
Basal Cell Carcinoma														
		0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/99 (1.01%)		Mean	1%	SD	1.41%	Total	0/100 (0%)		Mean	0%	SD	0%
.....														
#Skin:														
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
		0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/99 (1.01%)		Mean	1%	SD	1.41%	Total	0/100 (0%)		Mean	0%	SD	0%
.....														
#Skin:														
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		1/49	(2%)	2/50	(4%)			1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	3/99 (3.03%)		Mean	3.02%	SD	1.39%	Total	1/100 (1%)		Mean	1%	SD	1.41%
.....														
#Skin:														
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		3/49	(6%)	7/50	(14%)			1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	10/99 (10.1%)		Mean	10.06%	SD	5.57%	Total	1/100 (1%)		Mean	1%	SD	1.41%
.....														
#Skin:														
Fibroma														
		1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/99 (1.01%)		Mean	1.02%	SD	1.44%	Total	0/100 (0%)		Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
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	Male					Female				
#Skin:										
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma										
		1/49 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Skin:										
Fibrosarcoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Skin:										
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Skin:										
Hamartoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
.....										
#Skin:										
Hemangiosarcoma										
		0/49 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%		
.....										
#Skin:										
Keratoacanthoma										
		2/49 (4%)	4/50 (8%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	6/99 (6.06%)	Mean 6.04%	SD 2.77%	Total	0/100 (0%)	Mean 0%	SD 0%		

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female					
#Skin:											
Lipoma											
		0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Liposarcoma											
		0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Neurofibrosarcoma or Schwannoma (malignant or NOS)											
		0/49	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/99	(2.02%)	Mean 2%	SD 2.83%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)											
		0/49	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/99	(2.02%)	Mean 2%	SD 2.83%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Schwannoma Malignant											
		0/49	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/99	(2.02%)	Mean 2%	SD 2.83%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Squamous Cell Carcinoma											
		0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

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	Male					Female				
#Skin:										
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma										
Overall Incidence	Total	0/49 (0%)	1/50 (2%)	Mean 1%	SD 1.41%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		1/99 (1.01%)					0/100 (0%)			
#Skin:										
Squamous Cell Papilloma										
Overall Incidence	Total	0/49 (0%)	1/50 (2%)	Mean 1%	SD 1.41%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		1/99 (1.01%)					0/100 (0%)			
#Skin:										
Squamous Cell Papilloma or Papilloma										
Overall Incidence	Total	0/49 (0%)	1/50 (2%)	Mean 1%	SD 1.41%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		1/99 (1.01%)					0/100 (0%)			
#Skin:										
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma										
Overall Incidence	Total	2/49 (4%)	5/50 (10%)	Mean 7.04%	SD 4.18%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		7/99 (7.07%)					0/100 (0%)			
#Skin:										
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma										
Overall Incidence	Total	2/49 (4%)	5/50 (10%)	Mean 7.04%	SD 4.18%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		7/99 (7.07%)					0/100 (0%)			
#Skin: Sebaceous Gland:										
Adenoma										
Overall Incidence	Total	0/49 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
		0/99 (0%)					0/100 (0%)			

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

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		Male				Female			
#Skin: Sebaceous Gland:									
Carcinoma or Adenoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Spleen:									
Hemangiosarcoma									
		1/47	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/97	(2.06%)	Mean 2.06%	SD 0.09%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Fibrosarcoma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Leiomyoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Leiomyosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Sarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
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 Route: GAVAGE
 Vehicle: CORN OIL

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		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									
#Stomach, Glandular:									
Fibrosarcoma									
		1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/99	(1.01%)	Mean 1.02%	SD 1.44%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									
#Stomach, Glandular:									
Leiomyosarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%
									SD 1.41%
.....									
#Stomach, Glandular:									
Sarcoma									
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
 Vehicle: CORN OIL

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		Male				Female			
*Testes:									
Adenoma									
		2/49	(4%)	0/50	(0%)				
Overall Incidence	Total	2/99	(2.02%)	Mean 2.04%	SD 2.89%				
.....									
*Testes:									
Hemangiosarcoma									
		0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%				
.....									
*Thymus:									
Sarcoma									
		0/45	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/94	(0%)	Mean 0%	SD 0%	Total 1/100	(1%)	Mean 1%	SD 1.41%
.....									
*Thymus:									
Thymoma Benign									
		0/45	(0%)	1/49	(2%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/94	(1.06%)	Mean 1.02%	SD 1.44%	Total 1/100	(1%)	Mean 1%	SD 1.41%
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/45	(0%)	1/49	(2%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/94	(1.06%)	Mean 1.02%	SD 1.44%	Total 1/100	(1%)	Mean 1%	SD 1.41%
.....									
*Thyroid Gland:									
Carcinoma									
		0/45	(0%)	0/50	(0%)	0/45	(0%)	0/50	(0%)
Overall Incidence	Total	0/95	(0%)	Mean 0%	SD 0%	Total 0/95	(0%)	Mean 0%	SD 0%
.....									

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Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Wistar Han
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
 Vehicle: CORN OIL

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		Male			Female		
*Thyroid Gland: C-Cell: Adenoma							
		11/45 (24%)	5/50 (10%)		7/45 (16%)	7/50 (14%)	
Overall Incidence	Total	16/95 (16.84%)	Mean 17.22%	SD 10.21%	Total	14/95 (14.74%)	Mean 14.78% SD 1.1%
.....							
*Thyroid Gland: C-Cell: Carcinoma							
		0/45 (0%)	0/50 (0%)		0/45 (0%)	0/50 (0%)	
Overall Incidence	Total	0/95 (0%)	Mean 0%	SD 0%	Total	0/95 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: C-Cell: Carcinoma or Adenoma							
		11/45 (24%)	5/50 (10%)		7/45 (16%)	7/50 (14%)	
Overall Incidence	Total	16/95 (16.84%)	Mean 17.22%	SD 10.21%	Total	14/95 (14.74%)	Mean 14.78% SD 1.1%
.....							
*Thyroid Gland: Follicular Cell: Adenoma							
		1/45 (2%)	3/50 (6%)		1/45 (2%)	3/50 (6%)	
Overall Incidence	Total	4/95 (4.21%)	Mean 4.11%	SD 2.67%	Total	4/95 (4.21%)	Mean 4.11% SD 2.67%
.....							
*Thyroid Gland: Follicular Cell: Carcinoma							
		0/45 (0%)	0/50 (0%)		0/45 (0%)	0/50 (0%)	
Overall Incidence	Total	0/95 (0%)	Mean 0%	SD 0%	Total	0/95 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
		1/45 (2%)	3/50 (6%)		1/45 (2%)	3/50 (6%)	
Overall Incidence	Total	4/95 (4.21%)	Mean 4.11%	SD 2.67%	Total	4/95 (4.21%)	Mean 4.11% SD 2.67%

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Version: Nov2014
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male					Female					
*Urinary Bladder: Carcinoma or Papilloma											
		0/49	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	1/99 (1.01%)		Mean	1%	SD	1.41%		Total	1/100 (1%)	
				Mean	1%	SD	1.41%				
*Urinary Bladder: Papilloma											
		0/49	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	1/99 (1.01%)		Mean	1%	SD	1.41%		Total	1/100 (1%)	
				Mean	1%	SD	1.41%				
#Uterus: Adenoma											
							1/50	(2%)	0/50	(0%)	
Overall Incidence	Total			Mean	1%	SD	1.41%		Total	1/100 (1%)	
				Mean	1%	SD	1.41%				
#Uterus: Carcinoma											
							1/50	(2%)	3/50	(6%)	
Overall Incidence	Total			Mean	4%	SD	2.83%		Total	4/100 (4%)	
				Mean	4%	SD	2.83%				
#Uterus: Granular Cell Tumor Benign											
							1/50	(2%)	0/50	(0%)	
Overall Incidence	Total			Mean	1%	SD	1.41%		Total	1/100 (1%)	
				Mean	1%	SD	1.41%				
#Uterus: Hemangiosarcoma											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total			Mean	0%	SD	0%		Total	0/100 (0%)	
				Mean	0%	SD	0%				

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#: Denominator is number of animals necropsied

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: RATS
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 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
 Vehicle: CORN OIL

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	Male	Female
#Uterus: Leiomyosarcoma		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus: Malignant Mixed Mullerian Tumor		
Overall Incidence	Total 1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1% SD 1.41%
#Uterus: Polyp Stromal		
Overall Incidence	Total 3/50 (6%) 5/100 (5%)	2/50 (4%) Mean 5% SD 1.41%
#Uterus: Sarcoma Stromal		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus: Sarcoma Stromal or Polyp Stromal		
Overall Incidence	Total 3/50 (6%) 5/100 (5%)	2/50 (4%) Mean 5% SD 1.41%
#Uterus: Schwannoma Malignant		
Overall Incidence	Total 1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1% SD 1.41%

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Version: Nov2014
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 Species: RATS
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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				Male					Female
#Uterus:									
Squamous Cell Papilloma									
					0/50	(0%)		0/50	(0%)
Overall Incidence				Total	0/100	(0%)		Mean 0%	SD 0%
.....									
#Vagina:									
Fibrosarcoma									
					0/50	(0%)		0/50	(0%)
Overall Incidence				Total	0/100	(0%)		Mean 0%	SD 0%
.....									
#Vagina:									
Leiomyoma									
					0/50	(0%)		1/50	(2%)
Overall Incidence				Total	1/100	(1%)		Mean 1%	SD 1.41%
.....									
#Vagina:									
Polyp									
					0/50	(0%)		0/50	(0%)
Overall Incidence				Total	0/100	(0%)		Mean 0%	SD 0%
.....									
#Zymbal's Gland:									
Carcinoma									
		0/49	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%
.....									
#Zymbal's Gland:									
Carcinoma or Adenoma									
		0/49	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%
									SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied