Strain: F 344/N

Toxicology Data Management System

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Report Date: 03/20/2010

Contract/Lab: All Laboratories

Species: RATS

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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		
Battelle Northwest	052001105	07/14/03	729	50(5)	23(678)	526.9	1-Bromopropane
Battelle Northwest	059601105	06/04/01	729	50(5)	26(676)	540.9	Cumene
Battelle Northwest	059901705	08/25/03	729	50(5)	28(686)	525.6	Diethylamine
Battelle Northwest	058800603	08/06/01	729	50(5)	27(680)	537.2	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	729	49(5)	27(683)	525.0	Propargyl alcohol
Battelle Northwest	059302507	06/16/03	729	50(5)	20(668)	536.2	Tetralin
					Female		
Battelle Northwest	052001105	07/14/03	730	50(5)	34(702)	386.5	1-Bromopropane
Battelle Northwest	059601105	06/04/01	731	50(5)	21(674)	356.9	Cumene
Battelle Northwest	059901705	08/25/03	730	50(5)	31(687)	378.3	Diethylamine
Battelle Northwest	058800603	08/06/01	730	50(5)	27(647)	351.9	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	730	50(5)	29(678)	353.3	Propargyl alcohol
Battelle Northwest	059302507	06/16/03	730	50(5)	31(682)	370.8	Tetralin

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#All Organs: Benign Tumors								
		48/50 (96%)	48/50 (96%)	44/50 (88%)		45/50 (90%)	44/50 (88%)	43/50 (86%)
Overall Incidence	Total	48/50 (96%) 284/299 (94.98%)	48/49 (98%) Mean 94.99%	48/50 (96%) SD 3.51%	Total	43/50 (86%) 257/300 (85.67%)	42/50 (84%) Mean 85.67%	40/50 (80%) SD 3.44%
#All Organs: Malignant Tumors		38/50 (76%)	36/50 (72%)	31/50 (62%)		26/50 (52%)	24/50 (48%)	24/50 (48%)
		32/50 (64%)	32/49 (65%)	33/50 (66%)		25/50 (50%)	26/50 (52%)	25/50 (50%)
Overall Incidence	Total	202/299 (67.56%)	Mean 67.55%	SD 5.33%	Total	150/300 (50%)	Mean 50%	SD 1.79%
#All Organs: Malignant and Benign To Overall Incidence	umors Total	50/50 (100%) 50/50 (100%) 298/299 (99.67%)	50/50 (100%) 49/49 (100%) Mean 99.67%	49/50 (98%) 50/50 (100%) SD 0.82%	Total	49/50 (98%) 46/50 (92%) 286/300 (95.33%)	50/50 (100%) 47/50 (94%) Mean 95.33%	48/50 (96%) 46/50 (92%) SD 3.27%
#All Organs: Hemangioma		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#All Organs: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 2/299 (0.67%)	0/49 (0%) Mean 0.67%	1/50 (2%) SD 1.03%	Total	0/50 (0%) 2/300 (0.67%)	2/50 (4%) Mean 0.67%	0/50 (0%) SD 1.63%
Jveran incluence	Total	2/299 (0.0776)	IVIEATT 0.07 70	JU 1.05%	IUIdl	2/300 (0.07%)	IVICALI U.U.7%	JU 1.03%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Male **Female** #All Organs: Hemangiosarcoma or Hemangioma 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)(4%)0/50 (0%)0/49 (0%)1/50 (2%)1/50 (2%)2/50 0/50 (0%)**Overall Incidence** Total 2/299 (0.67%) Mean 0.67% SD 1.03% Total 3/300 (1%) Mean 1% SD 1.67% #All Organs: **Histiocytic Sarcoma** (0%)(0%)0/50 0/50 (0%)0/50 (0%)0/50 0/50 (0%)0/50 (0%)1/50 (2%)0/49 (0%)0/50 (0%)0/50 (0%)0/50 (0%)2/50 (4%)**Overall Incidence** Total 1/299 (0.33%) Mean 0.33% SD 0.82% Total 2/300 (0.67%) Mean 0.67% SD 1.63% #All Organs: Leukemia: Erythrocytic 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/299 (0%) Mean 0% SD 0% 0/300 (0%) Mean 0% SD 0% Total **#All Organs:** Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated 29/50 (58%)(52%)25/50 (50%)16/50 (32%)12/50 (24%)15/50 (30%)26/50 26/50 (52%)21/49 (43%)25/50 (50%)18/50 (36%)20/50 (40%)17/50 (34%)**Overall Incidence** Total 152/299 (50.84%) Mean 50.81% SD 4.88% Total 98/300 (32.67%) Mean 32.67% SD 5.47% **#All Organs:** Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)

0/50

SD 0%

(0%)

0/50

0/300 (0%)

Total

(0%)

0/50

(0%)

Mean 0%

0/50

SD 0%

(0%)

Total

0/50

0/299 (0%)

(0%)

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0/49

Mean 0%

(0%)

Overall Incidence

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
All Organs: Mesothelioma: Benign								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
tAll Organs: Mesothelioma: Benign, Mal	ignant, NOS							
		0/50 (0%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	4/299 (1.34%)	Mean 1.34%	SD 2.42%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#All Organs: Mesothelioma: Malignant								
		0/50 (0%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	4/299 (1.34%)	Mean 1.34%	SD 2.42%	Total	0/300 (0%)	Mean 0%	SD 0%
#All Organs: Osteoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#All Organs: Osteosarcoma								
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	6/299 (2.01%)	Mean 2.01%	SD 2.53%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** #All Organs: Osteosarcoma or Osteoma 2/50 (4%)0/50 (0%)0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)(6%) 0/50 (0%)1/49 (2%)3/50 0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 6/299 (2.01%) Mean 2.01% SD 2.53% Total 1/300 (0.33%) Mean 0.33% SD 0.82% *Adrenal Cortex: Adenoma 1/50 (2%)0/50 (0%)1/50 (2%)3/50 (6%)0/50 (0%)4/50 (8%)0/50 (0%)0/49 (0%)0/50 (0%)2/50 (4%)0/50 (0%)8/50 (16%)Mean 0.67% **Overall Incidence** Total 2/299 (0.67%) SD 1.03% Total 17/300 (5.67%) Mean 5.67% SD 5.99% *Adrenal Cortex: Carcinoma 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/299 (0%) Mean 0% SD 0% Total 0/300 (0%) Mean 0% SD 0% *Adrenal Medulla: Ganglioneuroma 0/50 0/50 (0%)0/50 (0%)(0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/299 (0%) Mean 0% SD 0% Total 0/299 (0%) Mean 0% SD 0% *Adrenal Medulla: Hemangioma 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/299 (0%) Mean 0% SD 0% Total 0/299 (0%) Mean 0% SD 0%

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^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Adrenal Medulla: Pheochromocytoma Be	enign							
		10/50 (20%)	7/50 (14%)	7/50 (14%)		2/50 (4%)	1/50 (2%)	0/50 (0%)
		8/50 (16%)	8/49 (16%)	9/50 (18%)		1/49 (2%)	1/50 (2%)	2/50 (4%)
Overall Incidence	Total	49/299 (16.39%)	Mean 16.39%	SD 2.33%	Total	7/299 (2.34%)	Mean 2.34%	SD 1.5%
Adrenal Medulla: Pheochromocytoma Co	omplex							
		1/50 (2%)	0/50 (0%)	2/50 (4%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/299 (1%)	Mean 1%	SD 1.67%	Total	2/299 (0.67%)	Mean 0.67%	SD 1.03%
*Adrenal Medulla: Pheochromocytoma Ma	alignant							
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		2/50 (4%)	3/49 (6%)	4/50 (8%)		0/49 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	11/299 (3.68%)	Mean 3.69%	SD 2.96%	Total	2/299 (0.67%)	Mean 0.67%	SD 1.03%
Adrenal Medulla: Pheochromocytoma: B	enign, Comple	x, Malignant, NOS						
		11/50 (22%)	7/50 (14%)	10/50 (20%)		3/50 (6%)	3/50 (6%)	0/50 (0%)
		10/50 (20%)	10/49 (20%)	12/50 (24%)		1/49 (2%)	1/50 (2%)	3/50 (6%)
Overall Incidence	Total	60/299 (20.07%)	Mean 20.07%	SD 3.35%	Total	11/299 (3.68%)	Mean 3.67%	SD 2.65%
#Bone: Chondrosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female					
#Bone: Chondrosarcoma or Chondroma												
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%				
#Bone: Chordoma												
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/50 (0%) 2/299 (0.67%)	1/49 (2%) Mean 0.67%	0/50 (0%) SD 1.04%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%				
		` ,				` ,						
#Bone: Osteoma												
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%				
		0/200 (0/0)										
#Bone: Osteosarcoma												
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)				
Overall Incidence	Total	0/50 (0%) 5/299 (1.67%)	1/49 (2%) Mean 1.67%	3/50 (6%) SD 2.34%	Total	0/50 (0%) 1/300 (0.33%)	0/50 (0%) Mean 0.33%	0/50 (0%) SD 0.82%				
#Bone: Osteosarcoma or Osteoma												
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)				
Overall Incidence	Total	0/50 (0%) 5/299 (1.67%)	1/49 (2%) Mean 1.67%	3/50 (6%) SD 2.34%	Total	0/50 (0%) 1/300 (0.33%)	0/50 (0%) Mean 0.33%	0/50 (0%) SD 0.82%				
		5,255 (1.07.70)	141Call 1.07 /0	3D 2.0470		1,000 (0.0070)	WICAIT 0.0070	JD 0.0270				

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Brain: Astrocytoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Brain: Ependymoma Benign								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Brain: Ependymoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
'Brain: Glioma Malignant								
_		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	3/300 (1%)	Mean 1%	SD 1.1%
Brain: Granular Cell Tumor Benig	n							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Brain: Medulloblastoma Mal								
		0/50 (0%) 1/50 (2%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)		0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/50 (2%) 1/299 (0.33%)	0/49 (0%) Mean 0.33%	0/50 (0%) SD 0.82%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
*Brain: Oligodendroglioma Be	enign							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
*Brain: Oligodendroglioma Ma				•••••				
	J	0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%)	0/50 (0%) Mean 0.33%	0/50 (0%) SD 0.82%
	10tai	0/299 (0%)	wiean 0%		Total	1/300 (0.33%)		SD 0.82%
*Brain: Oligodendroglioma, G	lioma, or Astrocy	ytoma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	2/50 (4%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	2/50 (4%) 5/300 (1.67%)	0/50 (0%) Mean 1.67%	0/50 (0%) SD 1.97%
	10tai							
*Brain: Osteosarcoma								
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	, ,	` ,		Total	` '	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Overall Incidence	Total	1/50 (2%) 0/50 (0%) 1/299 (0.33%)	0/50 (0%) 0/49 (0%) Mean 0.33%	0/50 (0%) 0/50 (0%) SD 0.82%	Total	0/50 (0%) 0/50 (0%) 0/300 (0%)	0/50 (0	0%)

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups Route: INHALATION Vehicle: AIR

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			Male				Female	
*Brain: Schwannoma Malignant								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/30 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Clitoral/Preputial Gland: Adenoma								
		4/50 (8%) 0/50 (0%)	0/50 (0%) 3/49 (6%)	0/50 (0%) 0/50 (0%)		3/49 (6%) 0/50 (0%)	1/50 (2%) 4/50 (8%)	1/50 (2%) 0/50 (0%)
Overall Incidence	Total	7/299 (2.34%)	Mean 2.35%	SD 3.69%	Total	9/299 (3.01%)	Mean 3.02%	SD 3.31%
*Clitoral/Preputial Gland: Carcinoma								
		2/50 (4%)	0/50 (0%)	1/50 (2%)		1/49 (2%)	2/50 (4%)	0/50 (0%)
Overall Incidence	Total	2/50 (4%) 5/299 (1.67%)	0/49 (0%) Mean 1.67%	0/50 (0%) SD 1.97%	Total	1/50 (2%) 8/299 (2.68%)	0/50 (0%) Mean 2.67%	4/50 (8%) SD 3.01%
*Clitoral/Preputial Gland: Carcinoma or Adenoma	• • • • • • • • • • • • • • • • • • • •							
		6/50 (12%)	0/50 (0%)	1/50 (2%)		4/49 (8%)	3/50 (6%)	1/50 (2%)
Overall Incidence	Total	2/50 (4%) 12/299 (4.01%)	3/49 (6%) Mean 4.02%	0/50 (0%) SD 4.57%	Total	1/50 (2%) 17/299 (5.69%)	4/50 (8%) Mean 5.69%	4/50 (8%) SD 2.97%
*Clitoral/Preputial Gland: Fibrosarcoma			0/50 (00/)	0/50 (00/)		······································	0/50 (0%)	0/50 /00/
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)		0/49 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male				Female	
Clitoral/Preputial Gland: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/299 (0%)	Mean 0%	SD 0%
Ear: Neural Crest Tumor								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	1/299 (0.33%)	Mean 0.34%	SD 0.83%	Total	0/300 (0%)	Mean 0%	SD 0%
Esophagus: Fibrosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Esophagus: Lipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Eye: Melanoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

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^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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SD 0%

Mean 0%

					Male						F	emale		
Eye: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
N	T-1-1	0/50	(0%)	0/49	(0%)	0/50	(0%)	T-1-1	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%	,	Mean		SD 0%		Total	0/300 (,		n 0% 	SD	
Harderian Gland: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%	,	Mean		SD 0%		Total	0/300 (,		n 0%	SD	
Harderian Gland: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
verall Incidence	Total	0/299 (0%	,	Mean	0%	SD 0%		Total	0/300 ((0%)	Mea	n 0%	SD	0%
Heart: Schwannoma Benign									••••					
_		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.339	%)	Mean 0	.34%	SD 0.839	6	Total	0/300 ((0%)	Mea	n 0%	SD	0%
Heart: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)

SD 0%

Total

0/300 (0%)

Total

0/299 (0%)

Mean 0%

Overall Incidence

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Intestine Large: Colon/F Adenoma	Rectum:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Large: Colon/F Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Large: Colon/F Carcinoma or Adenom								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Large: Colon/F Hemangioma	Rectum:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Duoden Carcinoma	num:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Intestine Small: Duodenum Leiomyoma	1:							
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
fintestine Small: Ileum: Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Granular Cell Tumor Maliç	ınant							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Leiomyoma								
-		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Intestine Small: Jejunum Leiomyosarcoma	:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Adenoma	pecified:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma Overall Incidence	pecified: Total	0/50 (0%) 0/50 (0%) 0/299 (0%)	0/50 (0%) 0/49 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%	Total	0/50 (0%) 0/50 (0%) 0/300 (0%)	0/50 (0%) 0/50 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%
#Intestine Small: Site Uns Carcinoma or Adenoma	•							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Intestine Small: Site Uns# Granular Cell Tumor Ma	•							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male				Female	
#Intestine Small: Site Unspe Leiomyoma	ecified:							
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspe Leiomyosarcoma	ecified:							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Islets, Pancreatic: Adenoma								
		0/50 (0%)	1/50 (2%)	6/50 (12%)		0/50 (0%)	1/50 (2%)	2/50 (4%)
		3/50 (6%)	4/49 (8%)	3/50 (6%)		3/50 (6%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	17/299 (5.69%)	Mean 5.69%	SD 4.29%	Total	7/300 (2.33%)	Mean 2.33%	SD 2.34%
*Islets, Pancreatic: Carcinoma								
		3/50 (6%)	2/50 (4%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
		1/50 (2%)	5/49 (10%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	13/299 (4.35%)	Mean 4.37%	SD 3.28%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%
*Islets, Pancreatic: Carcinoma or Adenoma								
		3/50 (6%)	3/50 (6%)	7/50 (14%)		1/50 (2%)	2/50 (4%)	2/50 (4%)
		4/50 (8%)	9/49 (18%)	4/50 (8%)		3/50 (6%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	30/299 (10.03%)	Mean 10.06%	SD 5.02%	Total	9/300 (3%)	Mean 3%	SD 2.1%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Kidney: Pelvis and Trans Carcinoma	sitional Epitheliu	ım:						
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%
Kidney: Pelvis and Trans	sitional Epitheliu	ım:						
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%
Overall Incidence	Total	1/50 (2%) 0/50 (0%) 1/299 (0.33%)	0/50 (0%) 0/49 (0%) Mean 0.33%	0/50 (0%) 0/50 (0%) SD 0.82%	Total	0/49 (0%) 0/49 (0%) 0/298 (0%)	0/50 (0%) 0/50 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%
*Kidney: Renal Tubule:	Total	1/299 (0.33%)				0/298 (0%)		50 0%
*								
Adenoma						0/40 (00/)	0/50 (0%)	0/50 (0%)
Adenoma		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	` ,	` ,
		0/50 (0%)	1/50 (2%) 0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Adenoma Overall Incidence	Total	()	` ,		Total	` ,	` ,	` '
Overall Incidence	Total	0/50 (0%)	0/49 (0%)	0/50 (0%)	Total	0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence 'Kidney: Renal Tubule:	Total	0/50 (0%)	0/49 (0%)	0/50 (0%)	Total	0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence 'Kidney: Renal Tubule:	Total	0/50 (0%) 2/299 (0.67%)	0/49 (0%) Mean 0.67%	0/50 (0%) SD 1.03%	Total	0/49 (0%) 0/298 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Kidney: Renal Tubule: Carcinoma or Adenoma								
		1/50 (2%)	2/50 (4%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/299 (1%)	Mean 1%	SD 1.67%	Total	1/298 (0.34%)	Mean 0.34%	SD 0.83%
Kidney: Renal Tubule: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Lipoma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/298 (0%)	Mean 0%	SD 0%
'Kidney: Renal Tubule: Mesenchymal Tumor Benig	gn							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Mesenchymal Tumor Malig	nant							
-		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

*Kidney: Renal Tubule: Nephroblastoma

*Kidney: Renal Tubule:

Overall Incidence

Overall Incidence

Cholangioma

Overall Incidence

Overall Incidence

Overall Incidence

Hemangiosarcoma

Hepatocellular Adenoma

Sarcoma

*Liver:

*Liver:

*Liver:

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

0/50

0/50

SD 0%

0/50

1/50

SD 0.82%

(0%)

(0%)

(0%)

(2%)

Total

Total

Report Date: 03/20/2010 **Route: INHALATION** Vehicle: AIR Male **Female** 0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)Mean 0% SD 0% Total 0/298 (0%) Mean 0% SD 0% (0%) 0/50 0/50 (0%)0/49(0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)Mean 0% SD 0% Total 0/298 (0%) Mean 0% SD 0% 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(0%)0/49 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)Mean 0% SD 0% Total 0/300 (0%) Mean 0% SD 0%

0/50

0/50

0/50

0/50

1/300 (0.33%)

0/300 (0%)

(0%)

(0%)

(0%)

(0%)

0/50

0/50

0/50

0/50

(0%)

(0%)

(0%)

(0%)

Mean 0%

Mean 0.33%

Page: 156

0/50

0/50

1/50

0/50

SD 0%

SD 0.82%

(0%)

(0%)

(2%)

(0%)

*.	Den	ominato	or is i	number	of anima	als with	tissues	examined	microscopically	,

Total

Total

Total

Total

Total

0/50

0/50

0/299 (0%)

0/50

0/50

0/299 (0%)

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0/299 (0%)

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0/299 (0%)

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0/50

1/299 (0.33%)

(0%)

(0%)

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(0%)

(0%)

(0%)

0/50

0/49

0/50

0/49

Mean 0.33%

Mean 0%

(0%)

(0%)

(0%)

(0%)

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date: 03/20/2010

			Male				Female	
*Liver: Hepatocellular Carcinom	ıa							
		2/50 (4%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
	-	0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/299 (1%)	Mean 1.01%	SD 1.68%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
*Liver: Hepatocellular Carcinom	a or Hepatobla	astoma						
		2/50 (4%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/299 (1%)	Mean 1.01%	SD 1.68%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
		2/50 (4%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	1/EO (OO/)
Overall Incidence	Total	0/50 (0%) 4/299 (1.34%)	1/49 (2%) Mean 1.34%	1/50 (2%) SD 1.64%	Total	0/50 (2%) 0/50 (0%) 2/300 (0.67%)	0/50 (0%) 0/50 (0%) Mean 0.67%	1/50 (2%) 0/50 (0%) SD 1.03%
*Liver:		0/50 (0%) 4/299 (1.34%)	1/49 (2%) Mean 1.34%	1/50 (2%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%)	1/49 (2%) Mean 1.34% Dlastoma 0/50 (0%)	1/50 (2%) SD 1.64%	Total	0/50 (0%) 2/300 (0.67%) 1/50 (2%)	0/50 (0%)	0/50 (0%) SD 1.03% 1/50 (2%)
*Liver: Hepatocellular Carcinom	a, Hepatocellu	0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%) 0/50 (0%)	1/49 (2%) Mean 1.34% blastoma 0/50 (0%) 1/49 (2%)	1/50 (2%) SD 1.64% 0/50 (0%) 1/50 (2%)		0/50 (0%) 2/300 (0.67%) 1/50 (2%) 0/50 (0%)	0/50 (0%) Mean 0.67% 0/50 (0%) 0/50 (0%)	0/50 (0%) SD 1.03% 1/50 (2%) 0/50 (0%)
*Liver: Hepatocellular Carcinom		0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%)	1/49 (2%) Mean 1.34% Dlastoma 0/50 (0%)	1/50 (2%) SD 1.64%	Total Total	0/50 (0%) 2/300 (0.67%) 1/50 (2%)	0/50 (0%) Mean 0.67% 0/50 (0%)	0/50 (0%) SD 1.03% 1/50 (2%)
*Liver: Hepatocellular Carcinom Overall Incidence	a, Hepatocellu	0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%) 0/50 (0%)	1/49 (2%) Mean 1.34% blastoma 0/50 (0%) 1/49 (2%)	1/50 (2%) SD 1.64% 0/50 (0%) 1/50 (2%)		0/50 (0%) 2/300 (0.67%) 1/50 (2%) 0/50 (0%)	0/50 (0%) Mean 0.67% 0/50 (0%) 0/50 (0%)	0/50 (0%) SD 1.03% 1/50 (2%) 0/50 (0%)
*Liver: Hepatocellular Carcinom Overall Incidence *Liver:	a, Hepatocellu	0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%) 0/50 (0%) 4/299 (1.34%)	1/49 (2%) Mean 1.34% blastoma 0/50 (0%) 1/49 (2%) Mean 1.34%	1/50 (2%) SD 1.64% 0/50 (0%) 1/50 (2%) SD 1.64% 0/50 (0%)		0/50 (0%) 2/300 (0.67%) 1/50 (2%) 0/50 (0%) 2/300 (0.67%)	0/50 (0%) Mean 0.67% 0/50 (0%) 0/50 (0%) Mean 0.67% 0/50 (0%)	0/50 (0%) SD 1.03% 1/50 (2%) 0/50 (0%) SD 1.03%
*Liver: Hepatocellular Carcinom Overall Incidence *Liver:	a, Hepatocellu	0/50 (0%) 4/299 (1.34%) ular Adenoma, or Hepatol 2/50 (4%) 0/50 (0%) 4/299 (1.34%)	1/49 (2%) Mean 1.34% blastoma 0/50 (0%) 1/49 (2%) Mean 1.34%	1/50 (2%) SD 1.64% 0/50 (0%) 1/50 (2%) SD 1.64%		0/50 (0%) 2/300 (0.67%) 1/50 (2%) 0/50 (0%) 2/300 (0.67%)	0/50 (0%) Mean 0.67% 0/50 (0%) 0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.03% 1/50 (2%) 0/50 (0%) SD 1.03%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F 344/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Lung: Alveolar/Bronchiolar Ad	denoma							
		2/50 (4%) 0/50 (0%)	1/50 (2%) 1/49 (2%)	0/50 (0%) 0/50 (0%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	4/299 (1.34%)	Mean 1.34%	SD 1.64%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Lung: Alveolar/Bronchiolar Ca	arcinoma							
		1/50 (2%)	1/50 (2%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%)	0/49 (0%)	1/50 (2%)	Total	0/50 (0%)	1/50 (2%) Mean 1%	0/50 (0%) SD 1.1%
	Total	4/299 (1.34%)	Mean 1.33%	SD 1.03%	Total	3/300 (1%)		עפ
Overall Incidence	arcinoma or Alv Total	yeolar/Bronchiolar Adeno 3/50 (6%) 0/50 (0%) 8/299 (2.68%)	2/50 (4%) 1/49 (2%) Mean 2.67%	1/50 (2%) 1/50 (2%) SD 2.06%	Total	2/50 (4%) 0/50 (0%) 4/300 (1.33%)	1/50 (2%) 1/50 (2%) Mean 1.33%	0/50 (0%) 0/50 (0%) SD 1.63%
Lung: Fibrosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overell Incidence	Total	0/50 (0%)	0/49 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Lung: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male				Female	
Lung: Squamous Cell Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
Lymph Node: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Mammary Gland: Adenolipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Mammary Gland: Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
		0/50 (0%)	2/49 (4%)	0/50 (0%)		0/50 (0%)	3/50 (6%)	0/50 (0%)
verall Incidence	Total	2/299 (0.67%)	Mean 0.68%	SD 1.67%	Total	4/300 (1.33%)	Mean 1.33%	SD 2.42%
Mammary Gland: Carcinoma								
		0/50 (0%)	2/50 (4%)	0/50 (0%)		4/50 (8%)	10/50 (20%)	9/50 (18%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		3/50 (6%)	7/50 (14%)	3/50 (6%)
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.63%	Total	36/300 (12%)	Mean 12%	SD 6.2%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Mammary Gland: Carcinoma or Adenoma								
		0/50 (0%)	2/50 (4%)	0/50 (0%)		4/50 (8%)	10/50 (20%)	10/50 (20%)
		0/50 (0%)	2/49 (4%)	0/50 (0%)		3/50 (6%)	10/50 (20%)	3/50 (6%)
Overall Incidence	Total	4/299 (1.34%)	Mean 1.35%	SD 2.09%	Total	40/300 (13.33%)	Mean 13.33%	SD 7.34%
#Mammary Gland: Fibroadenoma								
		2/50 (4%)	0/50 (0%)	2/50 (4%)		25/50 (50%)	24/50 (48%)	27/50 (54%)
		1/50 (2%)	1/49 (2%)	1/50 (2%)		22/50 (44%)	26/50 (52%)	14/50 (28%)
Overall Incidence	Total	7/299 (2.34%)	Mean 2.34%	SD 1.5%	Total	138/300 (46%)	Mean 46%	SD 9.47%
#Mammary Gland: Fibroma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Mammary Gland: Fibroma, Fibroadenoma	or Adenoma							
		2/50 (4%)	0/50 (0%)	2/50 (4%)		25/50 (50%)	24/50 (48%)	27/50 (54%)
		1/50 (2%)	3/49 (6%)	1/50 (2%)		22/50 (44%)	28/50 (56%)	14/50 (28%)
Overall Incidence	Total	9/299 (3.01%)	Mean 3.02%	SD 2.13%	Total	140/300 (46.67%)	Mean 46.67%	SD 10.09%
#Mammary Gland: Fibroma, Fibroadenoma								
		2/50 (4%)	2/50 (4%)	2/50 (4%)		27/50 (54%)	31/50 (62%)	30/50 (60%)
		1/50 (2%)	3/49 (6%)	1/50 (2%)		24/50 (48%)	31/50 (62%)	16/50 (32%)
Overall Incidence	Total	11/299 (3.68%)	Mean 3.69%	SD 1.54%	Total	159/300 (53%)	Mean 53%	SD 11.64%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Mesentery: Fibrous Histiocytoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Mesentery: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Mesentery: Lipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Mesentery: Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Nose: Adenoma								
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/298 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

*Nose: Chondroma

*Nose:

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Overall Incidence

Overall Incidence

Overall Incidence

Length of Study: CHRONIC

Squamous Cell Carcinoma

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Report Date: 03/20/2010 **Route: INHALATION** Vehicle: AIR Male **Female** 0/50 (0%)0/49 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/49 (0%)0/50 (0%)(0%)0/49 (0%)0/50 (0%)Mean 0% SD 0% Total 1/298 (0.34%) Mean 0.33% SD 0.82% (0%) 0/50 (0%)0/49 (0%)0/50 (0%)0/50 0/50 (0%)(0%) 0/49 (0%)0/50 0/49 (0%)0/49 (0%)0/50 (0%)

0/298 (0%)

0/50

0/50

0/300 (0%)

(0%)

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Mean 0%

Mean 0%

(0%)

0/50

0/50

SD 0%

SD 0%

(0%)

(0%)

0/50

0/50

#Oral Cavity (Oral Mucosa, Tongue, Pharynx,	Tooth, Gin	gıva):
Papilloma Squamous or Papilloma		
	0/50	(0%)

Total

Total

Total

0/50

0/50

0/298 (0%)

0/50

0/50

0/298 (0%)

0/50

0/299 (0%)

(0%)

(0%)

(0%)

(0%)

(0%)

Mean 0%

(0%)

(0%)

0/50

0/49

Mean 0%

#Oral Cavity (Oral Mucos Squamous Cell Carcin		ynx, Tooth, Gingiva):						
•		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#Oral Cavity (Oral Mucos	sa, Tongue, Phar	ynx, Tooth, Gingiva):						
Squamous Cell Carcin	oma, Papilloma	Squamous, or Papilloma	1					
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

SD 0%

0/50

0/50

SD 0%

(0%)

(0%)

Total

Total

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Version: Mar2010 Contract/Lab: All Laboratories

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Oral Mucosa: Squamous Cell Carcinoma								
•		1/50 (2%	, , ,	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%	, , ,	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
#Oral Mucosa: Squamous Cell Papilloma								
		0/50 (0%	, ,	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%	, ,	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenoma								
						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	0/300 (0%)	Mean 0%	SD 0%
*Ovary: Granulosa Cell Tumor Benig								
S						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	0/300 (0%)	Mean 0%	SD 0%
*Ovary: Granulosa Cell Tumor Maligr								
						0/50 (0%)	0/50 (0%)	0/50 (0%)
						1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male			Female				
*Ovary: Granulosa Cell Tumor: Be	nign, Maligna	int, NOS								
						0/50 (0%)	0/50 (0%)	0/50 (0%)		
						1/50 (2%)	0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%		
*Ovary: Granulosa-Theca Tumor B	Senign									
	_					0/50 (0%)	0/50 (0%)	0/50 (0%)		
						0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/300 (0%)	Mean 0%	SD 0%		
*Ovary: Granulosa-Theca Tumor N	lalignant									
						2/50 (4%)	0/50 (0%)	0/50 (0%)		
						0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	2/300 (0.67%)	Mean 0.67%	SD 1.63%		
*Ovary: Tubulostromal Adenoma										
						0/50 (0%)	0/50 (0%)	0/50 (0%)		
						0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/300 (0%)	Mean 0%	SD 0%		
*Pancreas: Adenoma										
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%		

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Pancreas: Carcinoma								
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
'Pancreas: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Pancreas: Mixed Tumor Benign								
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	2/49 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/298 (0.67%)	Mean 0.68%	SD 1.67%	Total	0/300 (0%)	Mean 0%	SD 0%
Pancreas: Mixed Tumor Malignant								
_		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Parathyroid Gland: Adenoma								
		0/46 (0%)	0/45 (0%)	0/48 (0%)		0/47 (0%)	0/49 (0%)	1/43 (2%)
		0/47 (0%)	0/47 (0%)	0/48 (0%)		0/43 (0%)	0/49 (0%)	0/49 (0%)
Overall Incidence	Total	0/281 (0%)	Mean 0%	SD 0%	Total	1/280 (0.36%)	Mean 0.39%	SD 0.95%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

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Report Date: 03/20/2010

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
Pituitary Gland: Pars Di Adenoma	stalis or Unspe	cified Site:						
		37/50 (74%)	36/50 (72%)	31/50 (62%)		35/50 (70%)	35/50 (70%)	29/50 (58%)
		34/49 (69%)	36/49 (73%)	36/50 (72%)		35/50 (70%)	30/50 (60%)	36/49 (73%)
verall Incidence	Total	210/298 (70.47%)	Mean 70.48%	SD 4.45%	Total	200/299 (66.89%)	Mean 66.91%	SD 6.31%
Pituitary Gland: Pars Di Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	2/50 (4%)
		0/49 (0%)	0/49 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/49 (0%)
verall Incidence	Total	1/298 (0.34%)	Mean 0.33%	SD 0.82%	Total	3/299 (1%)	Mean 1%	SD 1.67%
Overall Incidence	Total	37/50 (74%) 34/49 (69%) 211/298 (70.81%)	36/50 (72%) 36/49 (73%) Mean 70.81%	31/50 (62%) 37/50 (74%) SD 4.66%	Total	35/50 (70%) 35/50 (70%) 203/299 (67.89%)	36/50 (72%) 30/50 (60%) Mean 67.91%	31/50 (62%) 36/49 (73%) SD 5.55%
Pituitary Gland: Pars Di Ganglioneuroma	stalis or Unspe	cified Site:						
-		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)
verall Incidence	Total	1/298 (0.34%)	Mean 0.33%	SD 0.82%	Total	0/299 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Int Adenoma	termedia:							
•	termedia:	0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
•	termedia:	0/50 (0%) 0/49 (0%) 1/298 (0.34%)	0/50 (0%) 1/49 (2%) Mean 0.34%	0/50 (0%) 0/50 (0%) SD 0.83%	Total	0/50 (0%) 0/50 (0%) 0/299 (0%)	0/50 (0%) 0/50 (0%) Mean 0%	0/50 (0%) 0/49 (0%) SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female					
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma												
		0/50 (0%)	0/50 (0%)	0/50 (0%	,	0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/49 (0%)	1/49 (2%)	0/50 (0%	,	0/50 (0%)	0/50 (0%)	0/49 (0%)				
Overall Incidence	Total	1/298 (0.34%)	Mean 0.34%	SD 0.83%	Total	0/299 (0%)	Mean 0%	SD 0%				
Pituitary Gland: Pars Nervos Craniopharyngioma												
		0/50 (0%)	0/50 (0%)	0/50 (0%	%)	0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/49 (0%)	0/49 (0%)	0/50 (0%	,	0/50 (0%)	0/50 (0%)	0/49 (0%)				
Overall Incidence	Total	0/298 (0%)	Mean 0%	SD 0%	Total	0/299 (0%)	Mean 0%	SD 0%				
*Prostate: Adenoma												
		0/50 (0%)	0/50 (0%)	0/50 (0%	%)							
		0/50 (0%)	0/49 (0%)	0/50 (0%	%)							
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%								
Prostate: Carcinoma or Adenoma												
		0/50 (0%)	0/50 (0%)	0/50 (0%	,							
		0/50 (0%)	0/49 (0%)	0/50 (0%	%)							
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%								
Salivary Glands: Carcinoma												
		0/50 (0%)	0/50 (0%)	0/50 (0%	,	0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/50 (0%)	0/49 (0%)	0/50 (0%	,	0/50 (0%)	0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%				

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Salivary Glands: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
O	T-1-1	0/50 (0%)	0/49 (0%)	0/50 (0%)	T-1-1	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
[*] Salivary Glands: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Salivary Glands: Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Seminal Vesicle: Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/50 (0%)	0/49 (0%)	0/50 (0%)				
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%				
#Skeletal Muscle: Fibrous Histiocytoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS
Strain: F 344/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Skeletal Muscle: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Skeletal Muscle: Rhabdomyosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Rhabdomyosarcoma or R	Total	0/50 (0%) 0/50 (0%) 0/299 (0%)	0/50 (0%) 0/49 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%	Total	0/50 (0%) 1/50 (2%) 1/300 (0.33%)	0/50 (0%) 0/50 (0%) Mean 0.33%	0/50 (0%) 0/50 (0%) SD 0.82%
#Skin: Basal Cell Adenoma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/50 (2%)	1/49 (2%)	1/50 (2%)	Total		0/50 (0%) Mean 0%	0/50 (0%) SD 0%
	Total	4/299 (1.34%)	Mean 1.34%	SD 1.04%	Total	0/300 (0%)		JU U%
#Skin: Basal Cell Adenoma or B	asosquamous	Tumor Benign						
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	4/299 (1.34%)	Mean 1.34%	SD 1.04%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

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Report Date: 03/20/2010

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION
Vehicle: AIR

Length of Study: CHRONIC

Male **Female** #Skin: Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma 0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(2%) 1/50 1/49 (2%)1/50 (2%)0/50 (0%)1/50 (2%)0/50 (0%)**Overall Incidence** Total 4/299 (1.34%) Mean 1.34% SD 1.04% Total 1/300 (0.33%) Mean 0.33% SD 0.82% #Skin: **Basal Cell Carcinoma** 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)3/50 (6%)0/50 (0%)0/50 (0%)0/50 (0%)Mean 1.33% **Overall Incidence** Total 4/299 (1.34%) SD 2.42% Total 0/300 (0%) Mean 0% SD 0% #Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS) 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)3/50 (6%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 4/299 (1.34%) Mean 1.33% SD 2.42% 0/300 (0%) SD 0% Total Mean 0% #Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma 0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)1/50 (2%)(2%)1/50 1/49 (2%)4/50 (8%)0/50 (0%)1/50 (2%)0/50 (0%)**Overall Incidence** Total 8/299 (2.68%) Mean 2.67% SD 2.73% Total 1/300 (0.33%) Mean 0.33% SD 0.82% #Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma 1/50 (2%)5/50 (10%)1/50 (2%)1/50 (2%)0/50 (0%)1/50 (2%)(4%)5/49 (10%)5/50 0/50 (0%)(2%)1/50 (2%)2/50 (10%)1/50 **Overall Incidence** Total 19/299 (6.35%) Mean 6.37% SD 4.12% SD 1.03% Total 4/300 (1.33%) Mean 1.33%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS
Strain: F 344/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin: Fibroma								
		3/50 (6%)	3/50 (6%)	1/50 (2%)		2/50 (4%)	0/50 (0%)	1/50 (2%)
		4/50 (8%)	3/49 (6%)	3/50 (6%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	17/299 (5.69%)	Mean 5.69%	SD 1.97%	Total	5/300 (1.67%)	Mean 1.67%	SD 1.51%
#Skin:								
Fibroma, Fibrosarcoma	, Sarcoma, Myx	coma, Myxosarcoma, or F	_	0/50 (40/)		0/50 (40/)	4/50 (00/)	4/50 (00/)
		3/50 (6%) 5/50 (10%)	3/50 (6%) 4/49 (8%)	2/50 (4%) 6/50 (12%)		2/50 (4%) 1/50 (2%)	1/50 (2%)	1/50 (2%) 0/50 (0%)
Overall Incidence	Total		, ,	SD 2.95%	Total	` '	2/50 (4%)	0/50 (0%) SD 1.51%
	Total	23/299 (7.69%)	Mean 7.69%		Total	7/300 (2.33%)	Mean 2.33%	
#Skin: Fibrosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	1/49 (2%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	5/299 (1.67%)	Mean 1.67%	SD 2.34%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#Skin: Fibrosarcoma, Sarcoma	. Mvxosarcom	a, or Fibrous Histiocytom	a					
r ibrocarooma, carooma	i, iii yxooai oo iii	0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		1/50 (2%)	1/49 (2%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	6/299 (2.01%)	Mean 2.01%	SD 2.19%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%
#Skin: Fibrous Histiocytoma								
•		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin: Hemangioma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overell Incidence	Tatal	0/50 (0%)	0/49 (0%)	0/50 (0%)	Tatal	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
• "' '	+	0/50 (0%)	0/49 (0%)	1/50 (2%)	-	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Keratoacanthoma								
		0/50 (0%)	4/50 (8%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	1/50 (2%)
		1/50 (2%)	4/49 (8%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	10/299 (3.34%)	Mean 3.36%	SD 3.77%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%
#Skin: Lipoma								
-		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	2/49 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	5/299 (1.67%)	Mean 1.68%	SD 1.99%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Liposarcoma								
-		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male					Female	
#Skin: Neural Crest Tumor									
		1/50 (2%)	0/50 (0%)		(0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%		Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#Skin: Neural Crest Tumor, M									
		0/50 (0%)	0/50 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Neurofibroma or Schw	annoma benign								
	_	0/50 (0%)	0/50 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Neurofibrosarcoma or	Schwannoma (m	nalignant or NOS)							
	`	0/50 (0%)	0/50 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	1/50	(2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.04%		Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Neurofibrosarcoma, No	eurofibroma, or S	Schwannoma (benign, m	alignant or NOS)						
,	, -	0/50 (0%)	0/50 (0%)	0/50	(0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	1/50	(2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.04%		Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS
Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date: 03/20/2010

			Male				Female	
#Skin: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Schwannoma Benign								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67% S	SD 1.04%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Squamous Cell Carcinon	na							
•		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	1/299 (0.33%)		SD 0.82%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
#Skin: Squamous Cell Carcinon or Carcinoma			ous Tumor (malignant or N					
or Carcinoma		1/50 (2%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
		5/299 (1.67%)	` ,	SD 2.34%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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					Male						F	emale		
#Skin: Squamous Cell Papilloma														
		,	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		,	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD 0%		Total	0/300 (0%)	Mea	n 0%	SD	0%
¢Skin: Squamous Cell Papillo	oma or Papilloma	a												
		,	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		,	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD 0%		Total	0/300 (0%)	Mea	n 0%	SD	0%
#Skin: Squamous Cell Papillo	oma, Papilloma,						(0%)		1/50	(2%)	0/50	(0%)	1/50	(2%)
_	oma, Papilloma, s Total	1/50 ((2%) (2%)	or Keratoa 4/50 4/49 Mean 3.	(8%) (8%)	0/50 1/50 SD 3.49%	(0%) (2%)	Total	1/50 0/50 3/300 ((2%) (0%) 1%)	0/50 0/50 Mea	(0%) (0%) n 1%	1/50 1/50 SD 1	(2%) (2%) .1%
Squamous Cell Papillo Overall Incidence #Skin:	Total	1/50 (1/50 (11/299 (3.68%	(2%) (2%) %)	4/50 4/49	(8%) (8%)	0/50 1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
Squamous Cell Papillo	Total	1/50 (1/50 (11/299 (3.68% or Keratoacanthon	(2%) (2%) %)	4/50 4/49	(8%) (8%)	0/50 1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
Squamous Cell Papillo Overall Incidence #Skin:	Total	1/50 (1/50 (11/299 (3.68% or Keratoacanthon 0/50 ((2%) (2%) 6) 	4/50 4/49 Mean 3.	(8%) (8%) 69%	0/50 1/50 SD 3.49%	(2%)	Total	0/50 3/300 ((0%) 1%)	0/50 Mea	(0%) n 1%	1/50 SD 1	(2%) .1%
Squamous Cell Papillo Overall Incidence #Skin: Squamous Cell Papillo	Total	1/50 (1/50 (11/299 (3.68% or Keratoacanthon 0/50 ((2%) (2%) (6) 	4/50 4/49 Mean 3. 4/50	(8%) (8%) 69% (8%) (8%)	0/50 1/50 SD 3.49%	(2%) (6 (0%) (2%)	Total Total	0/50 3/300 ((0%) 1%) (2%) (0%)	0/50 Mea 0/50 0/50	(0%) n 1% (0%)	1/50 SD 1	(2%) .1% (2%) (2%) (0%)
Squamous Cell Papillo Overall Incidence #Skin:	Total oma, Papilloma,	1/50 (1/50 (11/299 (3.68% or Keratoacanthon 0/50 (1/50 ((2%) (2%) (6) 	4/50 4/49 Mean 3. 4/50 4/49	(8%) (8%) 69% (8%) (8%)	0/50 1/50 SD 3.49% 0/50 1/50	(2%) (6 (0%) (2%)		0/50 3/300 (1/50 0/50	(0%) 1%) (2%) (0%)	0/50 Mea 0/50 0/50	(0%) n 1% (0%) (0%)	1/50 SD 1 1/50 0/50	(2%) .1% (2%) (2%) (0%)
Squamous Cell Papillo Overall Incidence #Skin: Squamous Cell Papillo Overall Incidence	Total oma, Papilloma,	1/50 (1/50 (1/50 (11/299 (3.68% or Keratoacanthon 0/50 (1/50 (10/299 (3.34%)	(2%) (2%) (6) 	4/50 4/49 Mean 3. 4/50 4/49 Mean 3.	(8%) (8%) 69% (8%) (8%) 36%	0/50 1/50 SD 3.49% 0/50 1/50 SD 3.77%	(2%) (6) (0%) (2%) (6) (0%)		0/50 3/300 (1/50 0/50 2/300 (0.	(0%) 1%) (2%) (0%) 67%)	0/50 Mea 0/50 0/50 Mean	(0%) n 1% (0%) (0%) (0%) 0.67%	1/50 SD 1 1/50 0/50 SD 1	(2%) .1%
Squamous Cell Papillo Overall Incidence #Skin: Squamous Cell Papillo Overall Incidence	Total oma, Papilloma,	1/50 (1/50 (1/50 (11/299 (3.68% or Keratoacanthon 0/50 (1/50 (10/299 (3.34%)	(2%) (2%) (5) 	4/50 4/49 Mean 3. 4/50 4/49 Mean 3.	(8%) (8%) 69% (8%) (8%) 36% (0%) (0%)	0/50 1/50 SD 3.49% 0/50 1/50 SD 3.77%	(2%) 6 (0%) (2%)		0/50 3/300 (1/50 0/50 2/300 (0.	(0%) 1%) (2%) (0%) 67%) (0%) (0%)	0/50 Mea 0/50 0/50 Mean 0/50 1/50	(0%) n 1% (0%) (0%) 0.67%	1/50 SD 1 1/50 0/50 SD 1	(2%) .1%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin: Sebaceous Gland: Adenoma								
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overell Incidence	Tatal	0/50 (0%)	1/49 (2%)	2/50 (4%)	Tatal	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	5/299 (1.67%)	Mean 1.67%	SD 1.51%	Total	0/300 (0%)	Mean 0%	SD 0%
#Skin: Sebaceous Gland: Carcinoma or Adenoma								
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	5/299 (1.67%)	Mean 1.67%	SD 1.51%	Total	0/300 (0%)	Mean 0%	SD 0%
#Spinal Cord: Astrocytoma Benign								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Spinal Cord: Astrocytoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
	-	0/50 (0%)	0/49 (0%)	0/50 (0%)	+	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Spinal Cord: Glioma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F 344/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Spleen: Fibrosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Spleen: Fibrous Histiocytoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
'Spleen: Hemangiosarcoma								
_		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Spleen: Leiomyosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
Spleen: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Stomach, Forestomach: Leiomyosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
Squamous Cell Carcinoma of the Carcinoma	Total	0/50 (0%) 0/50 (0%) 0/299 (0%)	0/50 (0%) 0/49 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%	Total	0/50 (0%) 0/50 (0%) 0/300 (0%)	0/50 (0%) 0/50 (0%) Mean 0%	0/50 (0%) 0/50 (0%) SD 0%
#Stomach, Forestomach: Squamous Cell Papilloma				0.50		0/50 (00)	(201)	(201)
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/299 (0%)	0/49 (0%) Mean 0%	0/30 (0%) SD 0%	Total	0/300 (0%)	0/50 (0%) Mean 0%	0/30 (0%) SD 0%
Overali incidence		0/299 (070)	IVIEAN U70	JU U%	10lal	0/300 (0%)	IVIEAN U70	JU U%
#Stomach, Glandular: Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
				0/50 (00/)		0/50 (00/)	0/50 /00/\	0/50 (00/)
Overall Incidence	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/300 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Stomach, Glandular: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Lipoma								
-		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Testes: Adenoma				•••••		•••••		
		34/50 (68%)	36/50 (72%)	36/50 (72%)				
		33/50 (66%)	38/49 (78%)	29/50 (58%)				
Overall Incidence	Total	206/299 (68.9%)	Mean 68.93%	SD 6.66%				
*Testes: Hemangioma								
-		0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/50 (0%)	0/49 (0%)	0/50 (0%)				
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%				

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male				Female	
Thymus: Thymoma Benign								
		0/43 (0%)	0/49 (0%)	0/44 (0%)		1/46 (2%)	0/48 (0%)	0/48 (0%)
		0/42 (0%)	1/47 (2%)	0/47 (0%)		1/50 (2%)	0/46 (0%)	0/44 (0%)
Overall Incidence	Total	1/272 (0.37%)	Mean 0.35%	SD 0.87%	Total	2/282 (0.71%)	Mean 0.7%	SD 1.08%
Thymus: Thymoma Malignant								
		0/43 (0%)	0/49 (0%)	0/44 (0%)		0/46 (0%)	0/48 (0%)	0/48 (0%)
		0/42 (0%)	0/47 (0%)	0/47 (0%)		0/50 (0%)	0/46 (0%)	0/44 (0%)
Overall Incidence	Total	0/272 (0%)	Mean 0%	SD 0%	Total	0/282 (0%)	Mean 0%	SD 0%
Thymus: Thymoma NOS								
		0/43 (0%)	0/49 (0%)	0/44 (0%)		0/46 (0%)	0/48 (0%)	1/48 (2%)
		0/42 (0%)	0/47 (0%)	0/47 (0%)		0/50 (0%)	0/46 (0%)	0/44 (0%)
Overall Incidence	Total	0/272 (0%)	Mean 0%	SD 0%	Total	1/282 (0.35%)	Mean 0.35%	SD 0.85%
Thymus: Thymoma: Benign, Malig	nant, NOS							
	•	0/43 (0%)	0/49 (0%)	0/44 (0%)		1/46 (2%)	0/48 (0%)	1/48 (2%)
		0/42 (0%)	1/47 (2%)	0/47 (0%)		1/50 (2%)	0/46 (0%)	0/44 (0%)
Overall Incidence	Total	1/272 (0.37%)	Mean 0.35%	SD 0.87%	Total	3/282 (1.06%)	Mean 1.04%	SD 1.14%
Thyroid Gland: C-Cell: Adenoma								
		5/50 (10%)	3/50 (6%)	7/50 (14%)		3/50 (6%)	3/50 (6%)	4/50 (8%)
		3/49 (6%)	4/49 (8%)	5/50 (10%)		2/50 (4%)	3/50 (6%)	3/50 (6%)
Overall Incidence	Total	27/298 (9.06%)	Mean 9.05%	SD 3%	Total	18/300 (6%)	Mean 6%	SD 1.26%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Thyroid Gland: C-Cell: Carcinoma								
		4/50 (8%)	1/50 (2%)	1/50 (2%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	3/49 (6%)	2/50 (4%)		1/50 (2%)	2/50 (4%)	0/50 (0%)
Overall Incidence	Total	11/298 (3.69%)	Mean 3.69%	SD 2.96%	Total	4/300 (1.33%)	Mean 1.33%	SD 1.63%
*Thyroid Gland: C-Cell: Carcinoma or Adenoma								
		9/50 (18%)	3/50 (6%)	8/50 (16%)		4/50 (8%)	3/50 (6%)	4/50 (8%)
		3/49 (6%)	7/49 (14%)	6/50 (12%)		3/50 (6%)	5/50 (10%)	3/50 (6%)
Overall Incidence	Total	36/298 (12.08%)	Mean 12.07%	SD 5.05%	Total	22/300 (7.33%)	Mean 7.33%	SD 1.63%
*Thyroid Gland: Follicular Cell: Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/298 (0.34%)	Mean 0.34%	SD 0.83%	Total	0/300 (0%)	Mean 0%	SD 0%
Thyroid Gland: Follicular Cell: Carcinoma								
		0/50 (0%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/298 (0.67%)	Mean 0.67%	SD 1.63%	Total	0/300 (0%)	Mean 0%	SD 0%
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma								
		0/50 (0%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/298 (1.01%)	Mean 1.01%	SD 1.68%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Tissue NOS: Lipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.34%	SD 0.83%	Total	0/300 (0%)	Mean 0%	SD 0%
Tissue NOS: Paraganglioma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
#Tongue: Squamous Cell Carcinon	na							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
fTongue: Squamous Cell Carcinon	na or Papillom	a Squamous						
•	•	0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%
Tongue: Squamous Cell Papillom	a							
•		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Tooth: Adamantinoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%
#Tooth: Odontoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	0/300 (0%)	Mean 0%	SD 0%
*Urinary Bladder: Carcinoma or Papilloma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/299 (0%)	Mean 0%	SD 0%
*Urinary Bladder: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/299 (0%)	Mean 0%	SD 0%
*Urinary Bladder: Leiomyosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F 344/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Urinary Bladder:								
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 1/299 (0.33%)	0/49 (0%) Mean 0.33%	0/50 (0%) SD 0.82%	Total	0/50 (0%) 0/299 (0%)	0/49 (0%) Mean 0%	0/50 (0%) SD 0%
#Uterus: Adenoma								
						0/50 (0%)	0/50 (0%)	1/50 (2%)
						0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence					Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%
#Uterus: Carcinoma								
						0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	0/50 (0%) 1/300 (0.33%)	0/50 (0%) Mean 0.33%	1/50 (2%) SD 0.82%
#Uterus: Deciduoma Benign								
· ·						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	0/300 (0%)	Mean 0%	SD 0%
#Uterus: Hemangioma								
-						0/50 (0%)	0/50 (0%)	0/50 (0%)
						1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

	Male	Female				
fUterus:						
Hemangiosarcoma			0/50 (00/)	0/50 (00/)	0/50 (00/)	
			0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	
hionell lucidouse		Tatal		, ,	' '	
verall Incidence		Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%	
Uterus: Leiomyosarcoma						
,			0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)	0/50 (0%)	
verall Incidence		Total	0/300 (0%)	Mean 0%	SD 0%	
				• • • • • • • • • • • • • • • • • • • •	•••••	
Uterus: Polyp Stromal						
			8/50 (16%)	13/50 (26%)	8/50 (16%)	
			6/50 (12%)	12/50 (24%)	6/50 (12%)	
verall Incidence		Total	53/300 (17.67%)	Mean 17.67%	SD 5.99%	
Uterus:						
Sarcoma			0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)	0/50 (0%)	
verall Incidence		Total	0/300 (0%)	Mean 0%	SD 0%	
Uterus: Sarcoma Stromal						
			2/50 (4%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence		Total	3/300 (1%)	Mean 1%	SD 1.67%	

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F 344/N

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Tumor Incidence for Selected Control Animal Groups

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Report Date: 03/20/2010

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female #Uterus:** Sarcoma Stromal or Polyp Stromal 10/50 (20%)14/50 (28%)8/50 (16%)(12%)12/50 (24%)6/50 (12%)56/300 (18.67%) **Overall Incidence** Total Mean 18.67% SD 6.53% #Uterus: Schwannoma Malignant 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/300 (0%) Mean 0% SD 0% #Vagina: Polyp 0/50 (0%)2/50 (4%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 2/300 (0.67%) Mean 0.67% SD 1.63% #Vagina: Sarcoma 1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 1/300 (0.33%) Mean 0.33% SD 0.82% #Zymbal's Gland: Adenoma 2/50 0/50 (0%)0/50 (0%)(4%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 2/299 (0.67%) Mean 0.67% SD 1.63% Total 0/300 (0%) Mean 0% SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups Species: RATS Route: INHALATION Strain: F 344/N Vehicle: AIR

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		Male				Female			
#Zymbal's Gland: Carcinoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	3/300 (1%)	Mean 1%	SD 1.1%	
≠Zymbal's Gland: Carcinoma or Adenoma									
		0/50 (0%)	1/50 (2%)	2/50 (4%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	3/299 (1%)	Mean 1%	SD 1.67%	Total	3/300 (1%)	Mean 1%	SD 1.1%	

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^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied