

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 141
 Report Date:04/29/2009

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	059700601	05/25/00	726	50 (5)	32(693)	529.7	Methyl isobutyl ketone
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	059700601	05/25/00	727	50 (5)	35(694)	365.6	Methyl isobutyl ketone
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

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 142
 Report Date:04/29/2009

		Male				Female			
#All Organs:									
Benign Tumors									
		48/50 (96%)	48/50 (96%)	44/50 (88%)	45/50 (90%)	44/50 (88%)	43/50 (86%)	43/50 (86%)	
		50/50 (100%)	48/50 (96%)	48/49 (98%)	44/50 (88%)	43/50 (86%)	42/50 (84%)	42/50 (84%)	
		48/50 (96%)			40/50 (80%)				
Overall Incidence	Total	334/349 (95.7%)	Mean 95.71%	SD 3.72%	Total	301/350 (86%)	Mean 86%	SD 3.27%	
.....									
#All Organs:									
Malignant Tumors									
		38/50 (76%)	36/50 (72%)	31/50 (62%)	26/50 (52%)	24/50 (48%)	24/50 (48%)	24/50 (48%)	
		31/50 (62%)	32/50 (64%)	32/49 (65%)	22/50 (44%)	25/50 (50%)	26/50 (52%)	26/50 (52%)	
		33/50 (66%)			25/50 (50%)				
Overall Incidence	Total	233/349 (66.76%)	Mean 66.76%	SD 5.3%	Total	172/350 (49.14%)	Mean 49.14%	SD 2.79%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		50/50 (100%)	50/50 (100%)	49/50 (98%)	49/50 (98%)	50/50 (100%)	48/50 (96%)	48/50 (96%)	
		50/50 (100%)	50/50 (100%)	49/49 (100%)	46/50 (92%)	46/50 (92%)	47/50 (94%)	47/50 (94%)	
		50/50 (100%)			46/50 (92%)				
Overall Incidence	Total	348/349 (99.71%)	Mean 99.71%	SD 0.76%	Total	332/350 (94.86%)	Mean 94.86%	SD 3.24%	
.....									
#All Organs:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 143
 Report Date: 04/29/2009

		Male				Female					
#All Organs:											
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%)
		1/50	(2%)					0/50	(0%)	2/50	(4%)
Overall Incidence	Total	2/349 (0.57%)		Mean 0.57%		SD 0.98%		Total 2/350 (0.57%)		Mean 0.57%	
										SD 1.51%	
.....											
#All Organs:											
Hemangiosarcoma or Hemangioma											
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)
		1/50	(2%)					0/50	(0%)	2/50	(4%)
Overall Incidence	Total	3/349 (0.86%)		Mean 0.86%		SD 1.07%		Total 3/350 (0.86%)		Mean 0.86%	
										SD 1.57%	
.....											
#All Organs:											
Histiocytic Sarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/49	(0%)	2/50	(4%)	0/50	(0%)
		0/50	(0%)					2/50	(4%)	0/50	(0%)
Overall Incidence	Total	1/349 (0.29%)		Mean 0.29%		SD 0.76%		Total 4/350 (1.14%)		Mean 1.14%	
										SD 1.95%	
.....											
#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%)	0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total 0/350 (0%)		Mean 0%	
										SD 0%	

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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 144
 Report Date: 04/29/2009

		Male				Female			
#All Organs:									
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated									
		29/50 (58%)	26/50 (52%)	25/50 (50%)		16/50 (32%)	12/50 (24%)	15/50 (30%)	
		25/50 (50%)	26/50 (52%)	21/49 (43%)		14/50 (28%)	18/50 (36%)	20/50 (40%)	
		25/50 (50%)				17/50 (34%)			
Overall Incidence	Total	177/349 (50.72%)	Mean 50.69%	SD 4.47%	Total	112/350 (32%)	Mean 32%	SD 5.29%	
.....									
#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 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#All Organs:									
Mesothelioma: Benign, Malignant, NOS									
		0/50 (0%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 2.23%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 145
 Report Date: 04/29/2009

		Male				Female							
#All Organs:													
Mesothelioma: Malignant													
		0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)				
Overall Incidence	Total	5/349 (1.43%)		Mean 1.43%		SD 2.23%		Total 0/350 (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	0/349 (0%)		Mean 0%		SD 0%		Total 0/350 (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%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)					0/50	(0%)				
Overall Incidence	Total	6/349 (1.72%)		Mean 1.72%		SD 2.43%		Total 1/350 (0.29%)		Mean 0.29%		SD 0.76%	
.....													
#All Organs:													
Osteosarcoma or Osteoma													
		2/50	(4%)	0/50	(0%)	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%)
		3/50	(6%)					0/50	(0%)				
Overall Incidence	Total	6/349 (1.72%)		Mean 1.72%		SD 2.43%		Total 1/350 (0.29%)		Mean 0.29%		SD 0.76%	

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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 146
 Report Date: 04/29/2009

		Male				Female			
*Adrenal Cortex: Adenoma									
		1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	4/50 (8%)		
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)		
		0/50 (0%)			8/50 (16%)				
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	17/350 (4.86%)	Mean 4.86%	SD 5.87%	
.....									
*Adrenal Cortex: Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla: Ganglioneuroma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (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%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%	

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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 147
 Report Date: 04/29/2009

		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Benign									
		10/50 (20%)	7/50 (14%)	7/50 (14%)	2/50 (4%)	1/50 (2%)	0/50 (0%)		
		8/50 (16%)	8/50 (16%)	8/49 (16%)	3/50 (6%)	1/49 (2%)	1/50 (2%)		
		9/50 (18%)			2/50 (4%)				
Overall Incidence	Total	57/349 (16.33%)	Mean 16.33%	SD 2.13%	Total	10/349 (2.87%)	Mean 2.86%	SD 1.95%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Complex									
		1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (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%)			0/50 (0%)				
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.57%	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	2/50 (4%)	3/49 (6%)	0/50 (0%)	0/49 (0%)	0/50 (0%)		
		4/50 (8%)			1/50 (2%)				
Overall Incidence	Total	11/349 (3.15%)	Mean 3.16%	SD 3.04%	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		11/50 (22%)	7/50 (14%)	10/50 (20%)	3/50 (6%)	3/50 (6%)	0/50 (0%)		
		8/50 (16%)	10/50 (20%)	10/49 (20%)	3/50 (6%)	1/49 (2%)	1/50 (2%)		
		12/50 (24%)			3/50 (6%)				
Overall Incidence	Total	68/349 (19.48%)	Mean 19.49%	SD 3.42%	Total	14/349 (4.01%)	Mean 4.01%	SD 2.58%	

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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 148
 Report Date: 04/29/2009

		Male				Female					
#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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
.....											
#Bone:											
Chondrosarcoma or Chondroma											
		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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
.....											
#Bone:											
Chordoma											
		1/50	(2%)	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%)			0/50	(0%)
Overall Incidence	Total	2/349 (0.57%)		Mean 0.58%		SD 0.99%		Total		0/350 (0%)	
.....											
#Bone:											
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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	

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 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 149
 Report Date:04/29/2009

		Male					Female							
#Bone:														
Osteosarcoma														
		1/50	(2%)	0/50	(0%)	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%)	
		3/50	(6%)					0/50	(0%)					
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	2.23%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Bone:														
Osteosarcoma or Osteoma														
		1/50	(2%)	0/50	(0%)	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%)	
		3/50	(6%)					0/50	(0%)					
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	2.23%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
*Brain:														
Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
*Brain:														
Ependymoma Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 150
 Report Date: 04/29/2009

		Male				Female								
*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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	3/350	(0.86%)	Mean	0.86%	SD	1.07%
.....														
*Brain:														
Granular Cell Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Medulloblastoma Mal														
		0/50	(0%)	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%)					0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 151
 Report Date:04/29/2009

		Male				Female					
*Brain:											
Meningioma 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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%		SD 0%					
.....											
*Brain:											
Meningioma: Benign, Malignant, NOS											
		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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%		SD 0%					
.....											
*Brain:											
Oligodendroglioma 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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%		SD 0%					
.....											
*Brain:											
Oligodendroglioma Malignant											
		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%)
		0/50	(0%)			0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		1/350 (0.29%)	
				Mean 0%		SD 0%				Mean 0.29%	
										SD 0.76%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 152
 Report Date:04/29/2009

		Male				Female			
*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	5/350 (1.43%)	Mean 1.43%	SD 1.9%	
.....									
*Brain:									
Osteosarcoma									
		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%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
Schwannoma Malignant									
		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%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Clitoral/Preputial Gland:									
Adenoma									
		4/50 (8%)	0/50 (0%)	0/50 (0%)	3/49 (6%)	1/50 (2%)	1/50 (2%)		
		0/50 (0%)	0/50 (0%)	3/49 (6%)	0/50 (0%)	0/50 (0%)	4/50 (8%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	7/349 (2.01%)	Mean 2.02%	SD 3.49%	Total	9/349 (2.58%)	Mean 2.59%	SD 3.23%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 153
 Report Date:04/29/2009

		Male					Female				
*Clitoral/Preputial Gland: Carcinoma											
		2/50 (4%)	0/50 (0%)	1/50 (2%)		1/49 (2%)	2/50 (4%)	0/50 (0%)			
		1/50 (2%)	2/50 (4%)	0/49 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)			
		0/50 (0%)				4/50 (8%)					
Overall Incidence	Total	6/349 (1.72%)	Mean 1.71%	SD 1.8%		Total	9/349 (2.58%)	Mean 2.58%	SD 2.76%		
.....											
*Clitoral/Preputial Gland: Carcinoma or Adenoma											
		6/50 (12%)	0/50 (0%)	1/50 (2%)		4/49 (8%)	3/50 (6%)	1/50 (2%)			
		1/50 (2%)	2/50 (4%)	3/49 (6%)		1/50 (2%)	1/50 (2%)	4/50 (8%)			
		0/50 (0%)				4/50 (8%)					
Overall Incidence	Total	13/349 (3.72%)	Mean 3.73%	SD 4.24%		Total	18/349 (5.16%)	Mean 5.17%	SD 3.05%		
.....											
*Clitoral/Preputial Gland: Fibrosarcoma											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)			
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%		Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%		
.....											
*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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%		Total	0/349 (0%)	Mean 0%	SD 0%		

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 154
 Report Date: 04/29/2009

		Male				Female			
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/350 (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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#Esophagus:									
Lipoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 155
 Report Date:04/29/2009

		Male				Female								
#Eye:														
Amelanotic Melanoma, 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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Eye:														
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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 156
 Report Date:04/29/2009

		Male				Female			
#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%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/350 (0%)	Mean 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%)	0/50 (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%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Large: Colon/Rectum:									
Adenoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 157
 Report Date: 04/29/2009

		Male				Female			
#Intestine Large: Colon/Rectum: Carcinoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Large: Colon/Rectum: Hemangioma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Duodenum: Carcinoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 158
 Report Date: 04/29/2009

		Male					Female							
#Intestine Small: Duodenum:														
Leiomyoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	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%)					0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(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%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum:														
Granular Cell Tumor Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 159
 Report Date: 04/29/2009

		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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: 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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: 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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified: Granular Cell Tumor 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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 160
 Report Date:04/29/2009

		Male				Female								
#Intestine Small: Site Unspecified:														
Leiomyoma														
		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	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified:														
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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)	3/50	(6%)	4/49	(8%)	0/50	(0%)	3/50	(6%)	1/50	(2%)	
		3/50	(6%)					0/50	(0%)					
Overall Incidence	Total	20/349	(5.73%)	Mean	5.74%	SD	3.92%	Total	7/350	(2%)	Mean	2%	SD	2.31%
.....														
*Islets, Pancreatic:														
Carcinoma														
		3/50	(6%)	2/50	(4%)	1/50	(2%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	
		4/50	(8%)	1/50	(2%)	5/49	(10%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)					0/50	(0%)					
Overall Incidence	Total	17/349	(4.87%)	Mean	4.89%	SD	3.29%	Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 161
 Report Date:04/29/2009

		Male					Female									
*Islets, Pancreatic:																
 Carcinoma or Adenoma																
		3/50	(6%)	3/50	(6%)	7/50	(14%)	1/50	(2%)	2/50	(4%)	2/50	(4%)			
		7/50	(14%)	4/50	(8%)	9/49	(18%)	0/50	(0%)	3/50	(6%)	1/50	(2%)			
		4/50	(8%)					0/50	(0%)							
Overall Incidence	Total	37/349 (10.6%)			Mean	10.62%	SD	4.82%	Total		9/350 (2.57%)		Mean	2.57%	SD	2.23%
.....																
*Kidney: Pelvis and Transitional Epithelium:																
 Carcinoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)							
Overall Incidence	Total	0/349 (0%)			Mean	0%	SD	0%	Total		0/348 (0%)		Mean	0%	SD	0%
.....																
*Kidney: Pelvis and Transitional Epithelium:																
 Carcinoma or Adenoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)							
Overall Incidence	Total	0/349 (0%)			Mean	0%	SD	0%	Total		0/348 (0%)		Mean	0%	SD	0%
.....																
*Kidney: Pelvis and Transitional Epithelium:																
 Papilloma																
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)							
Overall Incidence	Total	1/349 (0.29%)			Mean	0.29%	SD	0.76%	Total		0/348 (0%)		Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 162
 Report Date: 04/29/2009

		Male				Female			
*Kidney: Renal Tubule: Adenoma									
		1/50 (2%)	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%)	0/49 (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	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Carcinoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)	1/49 (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%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	
.....									
*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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (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	3/349 (0.86%)	Mean 0.86%	SD 1.57%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	
.....									
*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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 163
 Report Date: 04/29/2009

		Male				Female			
*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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (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	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Mesenchymal Tumor Benign									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Nephroblastoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Sarcoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 164
 Report Date: 04/29/2009

		Male				Female					
*Liver:											
Cholangioma											
		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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%		SD 0%					
.....											
*Liver:											
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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%		SD 0%					
.....											
*Liver:											
Hepatocellular Adenoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)			0/50	(0%)			0/50	(0%)
Overall Incidence	Total	2/349 (0.57%)		Mean 0.57%		SD 0.98%		Total		1/350 (0.29%)	
				Mean 0.29%		SD 0.76%					
.....											
*Liver:											
Hepatocellular Carcinoma											
		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%)			0/50	(0%)
Overall Incidence	Total	3/349 (0.86%)		Mean 0.86%		SD 1.58%		Total		1/350 (0.29%)	
				Mean 0.29%		SD 0.76%					

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 165
 Report Date:04/29/2009

		Male				Female			
*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	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%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.58%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.51%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.51%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
*Lung:									
Alveolar/Bronchiolar Adenoma									
		2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	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%)			0/50 (0%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.58%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 166
 Report Date:04/29/2009

		Male					Female				
*Lung:											
Alveolar/Bronchiolar Carcinoma											
		1/50 (2%)	1/50 (2%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)			
		1/50 (2%)				0/50 (0%)					
Overall Incidence	Total	4/349 (1.15%)	Mean 1.14%	SD 1.07%		Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%		
.....											
*Lung:											
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma											
		3/50 (6%)	2/50 (4%)	1/50 (2%)		2/50 (4%)	1/50 (2%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	1/49 (2%)		1/50 (2%)	0/50 (0%)	1/50 (2%)			
		1/50 (2%)				0/50 (0%)					
Overall Incidence	Total	8/349 (2.29%)	Mean 2.29%	SD 2.14%		Total	5/350 (1.43%)	Mean 1.43%	SD 1.51%		
.....											
*Lung:											
Fibrosarcoma											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%		Total	0/350 (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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%		Total	0/350 (0%)	Mean 0%	SD 0%		

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 167
 Report Date:04/29/2009

		Male				Female								
*Lung:														
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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*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	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(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%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 168
 Report Date:04/29/2009

		Male				Female			
#Mammary Gland: Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	2/349 (0.57%)	Mean 0.58%	SD 1.54%	Total	4/350 (1.14%)	Mean 1.14%	SD 2.27%	
.....									
#Mammary Gland: Carcinoma									
		0/50 (0%)	2/50 (4%)	0/50 (0%)	4/50 (8%)	10/50 (20%)	9/50 (18%)		
		2/50 (4%)	0/50 (0%)	0/49 (0%)	5/50 (10%)	3/50 (6%)	7/50 (14%)		
		0/50 (0%)			3/50 (6%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.14%	SD 1.95%	Total	41/350 (11.71%)	Mean 11.71%	SD 5.71%	
.....									
#Mammary Gland: Carcinoma or Adenoma									
		0/50 (0%)	2/50 (4%)	0/50 (0%)	4/50 (8%)	10/50 (20%)	10/50 (20%)		
		2/50 (4%)	0/50 (0%)	2/49 (4%)	5/50 (10%)	3/50 (6%)	10/50 (20%)		
		0/50 (0%)			3/50 (6%)				
Overall Incidence	Total	6/349 (1.72%)	Mean 1.73%	SD 2.15%	Total	45/350 (12.86%)	Mean 12.86%	SD 6.82%	
.....									
#Mammary Gland: Fibroadenoma									
		2/50 (4%)	0/50 (0%)	2/50 (4%)	25/50 (50%)	24/50 (48%)	27/50 (54%)		
		2/50 (4%)	1/50 (2%)	1/49 (2%)	22/50 (44%)	22/50 (44%)	26/50 (52%)		
		1/50 (2%)			14/50 (28%)				
Overall Incidence	Total	9/349 (2.58%)	Mean 2.58%	SD 1.51%	Total	160/350 (45.71%)	Mean 45.71%	SD 8.67%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 169
 Report Date:04/29/2009

		Male				Female					
#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	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (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%)
		2/50	(4%)	1/50	(2%)	3/49	(6%)	22/50	(44%)	22/50	(44%)
		1/50	(2%)					14/50	(28%)		
Overall Incidence	Total	11/349 (3.15%)		Mean 3.16%		SD 1.98%		Total		162/350 (46.29%)	
				Mean 46.29%						SD 9.27%	
.....											
#Mammary Gland:											
Fibroma, Fibroadenoma, Carcinoma, or Adenoma											
		2/50	(4%)	2/50	(4%)	2/50	(4%)	27/50	(54%)	31/50	(62%)
		4/50	(8%)	1/50	(2%)	3/49	(6%)	26/50	(52%)	24/50	(48%)
		1/50	(2%)					16/50	(32%)		
Overall Incidence	Total	15/349 (4.3%)		Mean 4.3%		SD 2.15%		Total		185/350 (52.86%)	
				Mean 52.86%						SD 10.64%	
.....											
#Mesentery:											
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	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
				Mean 0%						SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 170
 Report Date: 04/29/2009

		Male				Female					
#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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
		Mean 0%		SD 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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
		Mean 0%		SD 0%		Mean 0%				SD 0%	
.....											
#Mesentery:											
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%)	0/50	(0%)
		0/50	(0%)			0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
		Mean 0%		SD 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%)
		0/50	(0%)			0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/348 (0%)		Mean 0%		SD 0%		Total		0/348 (0%)	
		Mean 0%		SD 0%		Mean 0%				SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 171
 Report Date: 04/29/2009

		Male				Female			
*Nose:									
Chondroma									
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
*Nose:									
Squamous Cell Carcinoma									
		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%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Papilloma Squamous or 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%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Squamous Cell Carcinoma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	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%)			1/50 (2%)				
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 172
 Report Date: 04/29/2009

		Male				Female			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	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%)			1/50 (2%)				
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#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%)
		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%)			0/50 (0%)				
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	0/350 (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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
					0/50 (0%)				
Overall Incidence	Total				0/350 (0%)	Mean 0%	SD 0%		

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 173
 Report Date: 04/29/2009

	Male	Female
*Ovary:		
Granulosa Cell Tumor Benign		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/350 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Granulosa Cell Tumor Malignant		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	1/50 (2%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/350 (0.29%)	Mean 0.29% SD 0.76%
.....		
*Ovary:		
Granulosa Cell Tumor: Benign, Malignant, NOS		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	1/50 (2%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/350 (0.29%)	Mean 0.29% SD 0.76%
.....		
*Ovary:		
Granulosa-Theca Tumor Benign		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/350 (0%)	Mean 0% SD 0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 174
 Report Date: 04/29/2009

		Male				Female			
*Ovary:									
Granulosa-Theca Tumor Malignant									
						2/50 (4%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)			
Overall Incidence					Total	2/350 (0.57%)	Mean 0.57%	SD 1.51%	
.....									
*Ovary:									
Tubulostromal Adenoma									
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)			
Overall Incidence					Total	0/350 (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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Pancreas:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 175
 Report Date: 04/29/2009

		Male				Female								
*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	0/348	(0%)	Mean	0%	SD	0%	Total	0/350	(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	2/348	(0.57%)	Mean	0.58%	SD	1.54%	Total	0/350	(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	0/348	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)	
		0/49	(0%)	0/47	(0%)	0/47	(0%)	0/46	(0%)	0/43	(0%)	0/49	(0%)	
		0/48	(0%)					0/49	(0%)					
Overall Incidence	Total	0/330	(0%)	Mean	0%	SD	0%	Total	1/326	(0.31%)	Mean	0.33%	SD	0.88%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 176
 Report Date: 04/29/2009

		Male				Female			
#Peripheral Nerve:									
Schwannoma Malignant									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Peripheral Nerve:									
Schwannoma: Benign, Malignant, NOS									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		37/50 (74%)	36/50 (72%)	31/50 (62%)	35/50 (70%)	35/50 (70%)	29/50 (58%)		
		35/50 (70%)	34/49 (69%)	36/49 (73%)	24/49 (49%)	35/50 (70%)	30/50 (60%)		
		36/50 (72%)			36/49 (73%)				
Overall Incidence	Total	245/348 (70.4%)	Mean 70.41%	SD 4.07%	Total	224/348 (64.37%)	Mean 64.35%	SD 8.89%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)		
		0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)			0/49 (0%)				
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	Total	3/348 (0.86%)	Mean 0.86%	SD 1.57%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 177
 Report Date: 04/29/2009

		Male				Female			
*Pituitary Gland: Pars Distalis or Unspecified Site:									
 Carcinoma or Adenoma									
		37/50 (74%)	36/50 (72%)	31/50 (62%)		35/50 (70%)	36/50 (72%)	31/50 (62%)	
		35/50 (70%)	34/49 (69%)	36/49 (73%)		24/49 (49%)	35/50 (70%)	30/50 (60%)	
		37/50 (74%)				36/49 (73%)			
Overall Incidence	Total	246/348 (70.69%)	Mean 70.69%	SD 4.26%	Total	227/348 (65.23%)	Mean 65.21%	SD 8.77%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
 Ganglioneuroma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/49 (0%)	0/49 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/49 (0%)			
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Intermedia:									
 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%)	1/49 (2%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/49 (0%)			
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/348 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Intermedia:									
 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%)	0/49 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)				0/49 (0%)			
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 178
 Report Date:04/29/2009

		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%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)					0/49	(0%)			
Overall Incidence	Total	1/348	(0.29%)	Mean 0.29%		SD 0.77%		Total	0/348	(0%)	Mean 0% SD 0%	
.....												
*Prostate: Adenoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)					
		0/50	(0%)									
Overall Incidence	Total	0/349	(0%)	Mean 0%		SD 0%						
.....												
*Prostate: Carcinoma or Adenoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)					
		0/50	(0%)									
Overall Incidence	Total	0/349	(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	0/349	(0%)	Mean 0%		SD 0%		Total	0/350	(0%)	Mean 0% SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 179
 Report Date:04/29/2009

		Male				Female			
#Seminal Vesicle:									
Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)		
		0/50	(0%)						
Overall Incidence	Total	0/349	(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%)	0/49	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350 (0%)
								Mean	0%
								SD	0%
.....									
#Skeletal Muscle:									
Hemangioma									
		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%)
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350 (0%)
								Mean	0%
								SD	0%
.....									
#Skeletal Muscle:									
Hemangiosarcoma									
		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%)
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350 (0%)
								Mean	0%
								SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 180
 Report Date:04/29/2009

		Male				Female								
#Skeletal Muscle:														
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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Skeletal Muscle:														
Rhabdomyosarcoma or Rhabdomyoma														
		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%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Skeletal Muscle:														
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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 181
 Report Date: 04/29/2009

		Male				Female			
#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%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.07%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Adenoma or Basosquamous Tumor Benign									
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.07%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#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%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.07%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#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%)	0/50 (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%)
		3/50 (6%)			0/50 (0%)				
Overall Incidence	Total	4/349 (1.15%)	Mean 1.14%	SD 2.27%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 182
 Report Date:04/29/2009

		Male				Female			
#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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		3/50 (6%)				0/50 (0%)			
Overall Incidence	Total	4/349 (1.15%)	Mean 1.14%	SD 2.27%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma									
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		4/50 (8%)				0/50 (0%)			
Overall Incidence	Total	8/349 (2.29%)	Mean 2.29%	SD 2.69%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#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%)	
		0/50 (0%)	2/50 (4%)	5/49 (10%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		5/50 (10%)				1/50 (2%)			
Overall Incidence	Total	19/349 (5.44%)	Mean 5.46%	SD 4.46%	Total	4/350 (1.14%)	Mean 1.14%	SD 1.07%	
.....									
#Skin:									
Fibroma									
		3/50 (6%)	3/50 (6%)	1/50 (2%)		2/50 (4%)	0/50 (0%)	1/50 (2%)	
		4/50 (8%)	4/50 (8%)	3/49 (6%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	
		3/50 (6%)				0/50 (0%)			
Overall Incidence	Total	21/349 (6.02%)	Mean 6.02%	SD 2%	Total	5/350 (1.43%)	Mean 1.43%	SD 1.51%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 183
 Report Date: 04/29/2009

		Male				Female			
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma									
		3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)		
		5/50 (10%)	5/50 (10%)	4/49 (8%)	0/50 (0%)	1/50 (2%)	2/50 (4%)		
		6/50 (12%)			0/50 (0%)				
Overall Incidence	Total	28/349 (8.02%)	Mean 8.02%	SD 2.83%	Total	7/350 (2%)	Mean 2%	SD 1.63%	
.....									
#Skin:									
Fibrosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		3/50 (6%)			0/50 (0%)				
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 2.14%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		3/50 (6%)			0/50 (0%)				
Overall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
#Skin:									
Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (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%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
*: Denominator is number of animals with tissues examined microscopically									
#: Denominator is number of animals necropsied									

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 184
 Report Date:04/29/2009

		Male				Female								
#Skin:														
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%)	0/50	(0%)			
		0/50	(0%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(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%)	
		0/50	(0%)	1/50	(2%)	4/49	(8%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	10/349	(2.87%)	Mean	2.88%	SD	3.66%	Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%
.....														
#Skin:														
Lipoma														
		2/50	(4%)	0/50	(0%)	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%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	5/349	(1.43%)	Mean	1.44%	SD	1.92%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 185
 Report Date: 04/29/2009

		Male				Female								
#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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Neural Crest Tumor														
		1/50	(2%)	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%)			0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Skin:														
Neural Crest Tumor, Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Neurofibroma or Schwannoma benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 186
 Report Date:04/29/2009

		Male				Female								
#Skin:														
Neurofibrosarcoma or Schwannoma (malignant 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%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)					0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant 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%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)					0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 187
 Report Date:04/29/2009

		Male				Female					
#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%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)					0/50	(0%)		
Overall Incidence	Total	2/349 (0.57%)		Mean 0.58%		SD 0.99%		Total		0/350 (0%)	
								Mean		0%	
								SD		0%	
.....											
#Skin:											
Squamous Cell Carcinoma											
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					1/50	(2%)		
Overall Incidence	Total	1/349 (0.29%)		Mean 0.29%		SD 0.76%		Total		1/350 (0.29%)	
								Mean		0.29%	
								SD		0.76%	
.....											
#Skin:											
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), 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%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)					1/50	(2%)		
Overall Incidence	Total	5/349 (1.43%)		Mean 1.43%		SD 2.23%		Total		1/350 (0.29%)	
								Mean		0.29%	
								SD		0.76%	
.....											
#Skin:											
Squamous Cell Papilloma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)		
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
								Mean		0%	
								SD		0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 188
 Report Date:04/29/2009

		Male				Female			
#Skin:									
Squamous Cell Papilloma or 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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma									
		1/50 (2%)	4/50 (8%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	1/50 (2%)	4/49 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)			1/50 (2%)				
Overall Incidence	Total	11/349 (3.15%)	Mean 3.17%	SD 3.48%	Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma									
		0/50 (0%)	4/50 (8%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	1/50 (2%)	4/49 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)			0/50 (0%)				
Overall Incidence	Total	10/349 (2.87%)	Mean 2.88%	SD 3.66%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%	
.....									
#Skin:									
Trichoepithelioma									
		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%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 189
 Report Date: 04/29/2009

		Male				Female			
#Skin: Sebaceous Gland: Adenoma									
		0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)			0/50 (0%)				
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 1.38%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
#Skin: Sebaceous Gland: Carcinoma									
		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%)	0/49 (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	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (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%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)			0/50 (0%)				
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 1.38%	Total	0/350 (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%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 190
 Report Date:04/29/2009

		Male				Female					
#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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	
.....											
*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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (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%)			0/50	(0%)
Overall Incidence	Total	0/349 (0%)		Mean 0%		SD 0%		Total		0/350 (0%)	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 191
 Report Date: 04/29/2009

		Male				Female			
*Spleen: Hemangioma									
		0/50 (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%)	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%)				
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
.....									
*Spleen: Leiomyosarcoma									
		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%)	1/50 (2%)	0/49 (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	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (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%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 192
 Report Date: 04/29/2009

		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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach:														
Squamous Cell Carcinoma or Papilloma 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%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach:														
Squamous Cell Papilloma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)			0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 193
 Report Date: 04/29/2009

		Male				Female			
#Stomach, Glandular:									
Lipoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (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%)	0/50 (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%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
.....									
*Testes:									
Adenoma									
		34/50 (68%)	36/50 (72%)	35/50 (70%)					
		42/50 (84%)	33/50 (66%)	38/49 (78%)					
		29/50 (58%)							
Overall Incidence	Total	247/349 (70.77%)	Mean 70.79%	SD 8.33%					
.....									
*Thymus:									
Sarcoma									
		0/43 (0%)	0/49 (0%)	0/44 (0%)	0/46 (0%)	0/48 (0%)	0/48 (0%)	0/48 (0%)	0/48 (0%)
		0/49 (0%)	0/42 (0%)	0/47 (0%)	0/47 (0%)	0/50 (0%)	0/46 (0%)	0/46 (0%)	0/46 (0%)
		0/47 (0%)			0/44 (0%)				
Overall Incidence	Total	0/321 (0%)	Mean 0%	SD 0%	Total	0/329 (0%)	Mean 0%	SD 0%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 194
 Report Date: 04/29/2009

		Male				Female			
*Thymus:									
Thymoma Benign									
		0/43 (0%)	0/49 (0%)	0/44 (0%)	1/46 (2%)	0/48 (0%)	0/48 (0%)		
		0/49 (0%)	0/42 (0%)	1/47 (2%)	0/47 (0%)	1/50 (2%)	0/46 (0%)		
		0/47 (0%)			0/44 (0%)				
Overall Incidence	Total	1/321 (0.31%)	Mean 0.3%	SD 0.8%	Total	2/329 (0.61%)	Mean 0.6%	SD 1.02%	
.....									
*Thymus:									
Thymoma Malignant									
		0/43 (0%)	0/49 (0%)	0/44 (0%)	0/46 (0%)	0/48 (0%)	0/48 (0%)		
		0/49 (0%)	0/42 (0%)	0/47 (0%)	0/47 (0%)	0/50 (0%)	0/46 (0%)		
		0/47 (0%)			0/44 (0%)				
Overall Incidence	Total	0/321 (0%)	Mean 0%	SD 0%	Total	0/329 (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%)		
		0/49 (0%)	0/42 (0%)	0/47 (0%)	0/47 (0%)	0/50 (0%)	0/46 (0%)		
		0/47 (0%)			0/44 (0%)				
Overall Incidence	Total	0/321 (0%)	Mean 0%	SD 0%	Total	1/329 (0.3%)	Mean 0.3%	SD 0.79%	
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/43 (0%)	0/49 (0%)	0/44 (0%)	1/46 (2%)	0/48 (0%)	1/48 (2%)		
		0/49 (0%)	0/42 (0%)	1/47 (2%)	0/47 (0%)	1/50 (2%)	0/46 (0%)		
		0/47 (0%)			0/44 (0%)				
Overall Incidence	Total	1/321 (0.31%)	Mean 0.3%	SD 0.8%	Total	3/329 (0.91%)	Mean 0.89%	SD 1.12%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 195
 Report Date: 04/29/2009

		Male				Female			
*Thyroid Gland: C-Cell: Adenoma									
		5/50 (10%)	3/50 (6%)	7/50 (14%)	3/50 (6%)	3/50 (6%)	4/50 (8%)		
		1/50 (2%)	3/49 (6%)	4/49 (8%)	3/50 (6%)	2/50 (4%)	3/50 (6%)		
		5/50 (10%)			3/50 (6%)				
Overall Incidence	Total	28/348 (8.05%)	Mean 8.04%	SD 3.82%	Total	21/350 (6%)	Mean 6%	SD 1.15%	
.....									
*Thyroid Gland: C-Cell: Carcinoma									
		4/50 (8%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		2/50 (4%)	0/49 (0%)	3/49 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)		
		2/50 (4%)			0/50 (0%)				
Overall Incidence	Total	13/348 (3.74%)	Mean 3.73%	SD 2.71%	Total	5/350 (1.43%)	Mean 1.43%	SD 1.51%	
.....									
*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%)		
		3/50 (6%)	3/49 (6%)	7/49 (14%)	4/50 (8%)	3/50 (6%)	5/50 (10%)		
		6/50 (12%)			3/50 (6%)				
Overall Incidence	Total	39/348 (11.21%)	Mean 11.2%	SD 5.15%	Total	26/350 (7.43%)	Mean 7.43%	SD 1.51%	
.....									
*Thyroid Gland: Follicular Cell: 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%)	1/49 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)			0/50 (0%)				
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: INHALATION
 Vehicle: AIR

Page: 196
 Report Date: 04/29/2009

		Male					Female				
*Thyroid Gland: Follicular Cell: Carcinoma											
		0/50 (0%)	2/50 (4%)	0/50 (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%)	0/49 (0%)	0/49 (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	3/348 (0.86%)	Mean 0.86%	SD 1.57%		Total	0/350 (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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/49 (0%)	1/49 (2%)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	4/348 (1.15%)	Mean 1.15%	SD 1.58%		Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%		
.....											
#Tissue NOS: Lipoma											
		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%)
		0/50 (0%)	0/50 (0%)	1/49 (2%)	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	1/349 (0.29%)	Mean 0.29%	SD 0.77%		Total	0/350 (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%)	0/50 (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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%		Total	0/350 (0%)	Mean 0%	SD 0%		

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 197
 Report Date: 04/29/2009

		Male				Female								
#Tissue NOS:														
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%)			0/50	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Tongue:														
Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)			1/50	(2%)							
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Tongue:														
Squamous Cell Carcinoma or Papilloma Squamous														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)			1/50	(2%)							
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
#Tongue:														
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%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)			0/50	(0%)							
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 198
 Report Date:04/29/2009

		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%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)					0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(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	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
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%)	0/49	(0%)			
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/349	(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%)			
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	0/349	(0%)	Mean	0%	SD	0%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 199
 Report Date:04/29/2009

		Male					Female							
*Urinary Bladder:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/349	(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%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%
.....														
*Urinary Bladder:														
Papilloma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	0/349	(0%)	Mean	0%	SD	0%
.....														
#Uterus:														
Adenoma														
								0/50	(0%)	0/50	(0%)	1/50	(2%)	
								0/50	(0%)	0/50	(0%)	0/50	(0%)	
								1/50	(2%)					
Overall Incidence								Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 200
 Report Date: 04/29/2009

	Male		Female	
#Uterus:				
Carcinoma				
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)		
Overall Incidence		Total 1/350 (0.29%)	Mean 0.29%	SD 0.76%
.....				
#Uterus:				
Deciduoma Benign				
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)		
Overall Incidence		Total 0/350 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Hemangioma				
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)		
Overall Incidence		Total 1/350 (0.29%)	Mean 0.29%	SD 0.76%
.....				
#Uterus:				
Hemangiosarcoma				
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/50 (2%)
		0/50 (0%)		
Overall Incidence		Total 1/350 (0.29%)	Mean 0.29%	SD 0.76%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 201
 Report Date: 04/29/2009

	Male	Female
#Uterus:		
Leiomyoma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/350 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Leiomyosarcoma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/350 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Polyp Stromal		
	8/50 (16%)	13/50 (26%)
	12/50 (24%)	6/50 (12%)
	6/50 (12%)	12/50 (24%)
Overall Incidence	Total 65/350 (18.57%)	Mean 18.57% SD 5.97%
.....		
#Uterus:		
Sarcoma Stromal		
	2/50 (4%)	1/50 (2%)
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 4/350 (1.14%)	Mean 1.14% SD 1.57%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 202
 Report Date:04/29/2009

	Male	Female
#Uterus:		
Sarcoma Stromal or Polyp Stromal		
	10/50 (20%)	14/50 (28%)
	13/50 (26%)	6/50 (12%)
	6/50 (12%)	8/50 (16%)
	12/50 (24%)	
Overall Incidence	Total 69/350 (19.71%)	Mean 19.71% SD 6.58%
.....		
#Uterus:		
Schwannoma Malignant		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/350 (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 2/350 (0.57%)	Mean 0.57% SD 1.51%
.....		
#Vagina:		
Sarcoma		
	1/50 (2%)	0/50 (0%)
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 2/350 (0.57%)	Mean 0.57% SD 0.98%

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

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 203
 Report Date:04/29/2009

		Male					Female							
#Zymbal's Gland:														
Adenoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	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%)					0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Zymbal's Gland:														
Carcinoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					1/50	(2%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	3/350	(0.86%)	Mean	0.86%	SD	1.07%
.....														
#Zymbal's Gland:														
Carcinoma or Adenoma														
		0/50	(0%)	1/50	(2%)	1/50	(2%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					1/50	(2%)					
Overall Incidence	Total	3/349	(0.86%)	Mean	0.86%	SD	1.07%	Total	3/350	(0.86%)	Mean	0.86%	SD	1.07%

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