

Version: Jun2013  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F 344/N  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
Route: PERINATAL AND POSTNATAL  
Vehicle: FEED

Page: 176  
Report Date: 06/05/2013

**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
<b>Male</b>							
Battelle Columbus Laboratory	059901305	05/12/05	726	50(3)	36(685)	522.7	Styrene-acrylonitrile trimer
<b>Female</b>							
Battelle Columbus Laboratory	059901305	05/13/05	727	50(5)	41(699)	371.2	Styrene-acrylonitrile trimer

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 177  
 Report Date: 06/05/2013

		Male			Female		
<b>#All Organs:</b>							
<b>Benign Tumors</b>							
		46/50 (92%)			42/50 (84%)		
<b>Overall Incidence</b>	Total	46/50 (92%)	Mean 92%	SD 0%	Total	42/50 (84%)	Mean 84% SD 0%
.....							
<b>#All Organs:</b>							
<b>Malignant Tumors</b>							
		22/50 (44%)			19/50 (38%)		
<b>Overall Incidence</b>	Total	22/50 (44%)	Mean 44%	SD 0%	Total	19/50 (38%)	Mean 38% SD 0%
.....							
<b>#All Organs:</b>							
<b>Malignant and Benign Tumors</b>							
		49/50 (98%)			44/50 (88%)		
<b>Overall Incidence</b>	Total	49/50 (98%)	Mean 98%	SD 0%	Total	44/50 (88%)	Mean 88% SD 0%
.....							
<b>#All Organs:</b>							
<b>Hemangioma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>#All Organs:</b>							
<b>Hemangiosarcoma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>#All Organs:</b>							
<b>Hemangiosarcoma or Hemangioma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 178  
 Report Date: 06/05/2013

	Male				Female			
<b>#All Organs:</b>								
<b>Histiocytic Sarcoma</b>								
		1/50 (2%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#All Organs:</b>								
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>								
		15/50 (30%)			13/50 (26%)			
<b>Overall Incidence</b>	Total	15/50 (30%)	Mean 30%	SD 0%	Total	13/50 (26%)	Mean 26%	SD 0%
.....								
<b>#All Organs:</b>								
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#All Organs:</b>								
<b>Mesothelioma: Benign, Malignant, NOS</b>								
		4/50 (8%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	4/50 (8%)	Mean 8%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#All Organs:</b>								
<b>Mesothelioma: Malignant</b>								
		4/50 (8%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	4/50 (8%)	Mean 8%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#All Organs:</b>								
<b>Osteoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 179  
 Report Date: 06/05/2013

		Male				Female			
<b>#All Organs:</b>									
<b>Osteosarcoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#All Organs:</b>									
<b>Osteosarcoma or Osteoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Adrenal Cortex:</b>									
<b>Adenoma</b>									
		0/50	(0%)			1/50	(2%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
<b>*Adrenal Cortex:</b>									
<b>Carcinoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Adrenal Medulla:</b>									
<b>Pheochromocytoma Benign</b>									
		4/50	(8%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	4/50	(8%)	Mean 8%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Adrenal Medulla:</b>									
<b>Pheochromocytoma Complex</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 180  
 Report Date: 06/05/2013

	Male				Female			
<b>*Adrenal Medulla:</b>								
<b>Pheochromocytoma Malignant</b>								
		0/50 (0%)			1/50 (2%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
<b>*Adrenal Medulla:</b>								
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>								
		4/50 (8%)			1/50 (2%)			
<b>Overall Incidence</b>	Total	4/50 (8%)	Mean 8%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
<b>#Blood Vessel:</b>								
<b>Leiomyosarcoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Bone:</b>								
<b>Chordoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Bone:</b>								
<b>Osteoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Bone:</b>								
<b>Osteosarcoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
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 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 181  
 Report Date: 06/05/2013

	Male				Female			
<b>#Bone:</b>								
<b>Osteosarcoma or Osteoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Brain:</b>								
<b>Glioma</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
<b>*Brain:</b>								
<b>Glioma Benign</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Brain:</b>								
<b>Glioma Malignant</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Brain:</b>								
<b>Oligodendroglioma, Glioma, or Astrocytoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Brain:</b>								
<b>Osteosarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 182  
 Report Date: 06/05/2013

	Male				Female			
<b>*Clitoral/Preputial Gland: Adenoma</b>								
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	3/50 (6%)	Mean 6%	SD 0%
.....								
<b>*Clitoral/Preputial Gland: Carcinoma</b>								
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>*Clitoral/Preputial Gland: Carcinoma or Adenoma</b>								
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	3/50 (6%)	Mean 6%	SD 0%
.....								
<b>*Clitoral/Preputial Gland: Sarcoma</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Ear: Neural Crest Tumor</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Eye: Melanoma Benign</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								

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Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 183  
 Report Date: 06/05/2013

		Male				Female			
<b>#Eye:</b>									
<b>Melanoma Malignant</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Harderian Gland:</b>									
<b>Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Harderian Gland:</b>									
<b>Carcinoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Harderian Gland:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Heart:</b>									
<b>Schwannoma Benign</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Heart:</b>									
<b>Schwannoma Malignant</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 184  
 Report Date: 06/05/2013

	Male				Female			
<b>#Intestine Large: Colon/Rectum: Adenoma</b>								
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Intestine Large: Colon/Rectum: Carcinoma or Adenoma</b>								
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Intestine Small: Duodenum: Leiomyoma</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Intestine Small: Duodenum: Schwannoma Malignant</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Intestine Small: Ileum: Adenoma</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Intestine Small: Jejunum: Carcinoma</b>								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								

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#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 185  
 Report Date: 06/05/2013

		Male				Female			
<b>#Intestine Small: Jejunum:</b>									
<b>Leiomyoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Intestine Small: Jejunum:</b>									
<b>Leiomyosarcoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Carcinoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Leiomyoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 186  
 Report Date: 06/05/2013

		Male			Female		
<b>#Intestine Small: Site Unspecified:</b>							
<b>Leiomyosarcoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>#Intestine Small: Site Unspecified:</b>							
<b>Schwannoma Malignant</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>*Islets, Pancreatic:</b>							
<b>Adenoma</b>							
		0/50	(0%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							
<b>*Islets, Pancreatic:</b>							
<b>Carcinoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>*Islets, Pancreatic:</b>							
<b>Carcinoma or Adenoma</b>							
		0/50	(0%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							
<b>*Kidney: Pelvis and Transitional Epithelium:</b>							
<b>Papilloma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 187  
 Report Date: 06/05/2013

		Male			Female		
<b>*Kidney: Renal Tubule: Adenoma</b>							
		1/50 (2%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Kidney: Renal Tubule: Carcinoma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Kidney: Renal Tubule: Carcinoma or Adenoma</b>							
		1/50 (2%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Kidney: Renal Tubule: Lipoma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Kidney: Renal Tubule: Mesenchymal Tumor Malignant</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Kidney: Renal Tubule: Sarcoma</b>							
		0/50 (0%)			0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 188  
 Report Date: 06/05/2013

	Male				Female			
<b>*Liver:</b>								
<b>Hepatocellular Adenoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Liver:</b>								
<b>Hepatocellular Carcinoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Liver:</b>								
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Liver:</b>								
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Liver:</b>								
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Liver:</b>								
<b>Ito Cell Tumor Benign</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 189  
 Report Date: 06/05/2013

	Male				Female			
<b>*Lung:</b>								
<b>Alveolar/Bronchiolar Adenoma</b>								
		1/50	(2%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
<b>*Lung:</b>								
<b>Alveolar/Bronchiolar Carcinoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
<b>*Lung:</b>								
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>								
		1/50	(2%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
<b>*Lung:</b>								
<b>Fibrosarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
<b>#Mammary Gland:</b>								
<b>Adenolipoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
<b>#Mammary Gland:</b>								
<b>Adenoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 190  
 Report Date: 06/05/2013

		Male			Female		
<b>#Mammary Gland:</b>							
<b>Carcinoma</b>							
		0/50	(0%)			2/50	(4%)
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50 (4%)
.....							
<b>#Mammary Gland:</b>							
<b>Carcinoma or Adenoma</b>							
		0/50	(0%)			2/50	(4%)
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50 (4%)
.....							
<b>#Mammary Gland:</b>							
<b>Fibroadenoma</b>							
		1/50	(2%)			36/50	(72%)
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	36/50 (72%)
.....							
<b>#Mammary Gland:</b>							
<b>Fibroma</b>							
		0/50	(0%)			0/50	(0%)
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>#Mammary Gland:</b>							
<b>Fibroma, Fibroadenoma or Adenoma</b>							
		1/50	(2%)			36/50	(72%)
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	36/50 (72%)
.....							
<b>#Mammary Gland:</b>							
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>							
		1/50	(2%)			36/50	(72%)
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	36/50 (72%)

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 191  
 Report Date: 06/05/2013

		Male			Female		
<b>#Mesentery:</b>							
<b>Fibrous Histiocytoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>#Mesentery:</b>							
<b>Schwannoma Malignant</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>*Nose:</b>							
<b>Adenoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>							
<b>Papilloma Squamous or Papilloma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>							
<b>Squamous Cell Carcinoma</b>							
		0/50	(0%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>							
<b>Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma</b>							
		0/50	(0%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 192  
 Report Date: 06/05/2013

	Male				Female			
<b>#Oral Mucosa:</b>								
<b>Squamous Cell Carcinoma</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
							Mean 2%	SD 0%
.....								
<b>#Oral Mucosa:</b>								
<b>Squamous Cell Papilloma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
<b>*Ovary:</b>								
<b>Cystadenoma</b>								
						0/50	(0%)	
<b>Overall Incidence</b>						Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
<b>*Ovary:</b>								
<b>Fibrosarcoma</b>								
						0/50	(0%)	
<b>Overall Incidence</b>						Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
<b>*Ovary:</b>								
<b>Granulosa Cell Tumor Benign</b>								
						0/50	(0%)	
<b>Overall Incidence</b>						Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
<b>*Ovary:</b>								
<b>Granulosa Cell Tumor Malignant</b>								
						0/50	(0%)	
<b>Overall Incidence</b>						Total	0/50	(0%)
							Mean 0%	SD 0%

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 193  
 Report Date: 06/05/2013

				Male					Female	
<b>*Ovary:</b>										
Granulosa Cell Tumor: Benign, Malignant, NOS										
					0/50	(0%)				
<b>Overall Incidence</b>				Total	0/50	(0%)	Mean	0%	SD	0%
.....										
<b>*Ovary:</b>										
Granulosa-Theca Tumor Malignant										
					0/50	(0%)				
<b>Overall Incidence</b>				Total	0/50	(0%)	Mean	0%	SD	0%
.....										
<b>*Ovary:</b>										
Schwannoma Malignant										
					0/50	(0%)				
<b>Overall Incidence</b>				Total	0/50	(0%)	Mean	0%	SD	0%
.....										
<b>*Ovary:</b>										
Sertoli Cell Tumor Malignant										
					0/50	(0%)				
<b>Overall Incidence</b>				Total	0/50	(0%)	Mean	0%	SD	0%
.....										
<b>*Ovary:</b>										
Tubulostromal Adenoma										
					0/50	(0%)				
<b>Overall Incidence</b>				Total	0/50	(0%)	Mean	0%	SD	0%
.....										
<b>*Pancreas:</b>										
Adenoma										
					1/50	(2%)				
<b>Overall Incidence</b>				Total	1/50	(2%)	Mean	2%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 194  
 Report Date: 06/05/2013

	Male				Female			
<b>*Pancreas:</b>								
<b>Carcinoma or Adenoma</b>								
		1/50	(2%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
<b>*Pancreas:</b>								
<b>Mixed Tumor Benign</b>								
		1/50	(2%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
<b>*Parathyroid Gland:</b>								
<b>Adenoma</b>								
		0/35	(0%)			0/48	(0%)	
<b>Overall Incidence</b>	Total	0/35	(0%)	Mean 0%	SD 0%	Total	0/48	(0%)
								Mean 0%
								SD 0%
.....								
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>								
<b>Adenoma</b>								
		16/50	(32%)			22/50	(44%)	
<b>Overall Incidence</b>	Total	16/50	(32%)	Mean 32%	SD 0%	Total	22/50	(44%)
								Mean 44%
								SD 0%
.....								
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>								
<b>Carcinoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>								
<b>Carcinoma or Adenoma</b>								
		16/50	(32%)			22/50	(44%)	
<b>Overall Incidence</b>	Total	16/50	(32%)	Mean 32%	SD 0%	Total	22/50	(44%)
								Mean 44%
								SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 195  
 Report Date: 06/05/2013

Male					Female				
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>									
<b>Ganglioneuroma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Pituitary Gland: Pars Nervosa:</b>									
<b>Craniopharyngioma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Prostate:</b>									
<b>Adenoma</b>									
		0/50	(0%)						
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
<b>*Prostate:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50	(0%)						
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 196  
 Report Date: 06/05/2013

		Male				Female			
<b>*Salivary Glands:</b>									
<b>  Carcinoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Salivary Glands:</b>									
<b>  Carcinoma or Adenoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Salivary Glands:</b>									
<b>  Sarcoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>*Salivary Glands:</b>									
<b>  Schwannoma Malignant</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
<b>#Seminal Vesicle:</b>									
<b>  Adenoma</b>									
		0/50	(0%)						
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
<b>#Skeletal Muscle:</b>									
<b>  Fibrous Histiocytoma</b>									
		0/50	(0%)			0/50	(0%)		
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 197  
 Report Date: 06/05/2013

	Male				Female			
<b>#Skeletal Muscle:</b>								
Lipoma								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
Basal Cell Adenoma								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
Basal Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 198  
 Report Date: 06/05/2013

	Male				Female			
<b>#Skin:</b>								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Skin:</b>								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
<b>#Skin:</b>								
Fibroma								
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Skin:</b>								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma								
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Skin:</b>								
Fibrosarcoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Skin:</b>								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 199  
 Report Date: 06/05/2013

	Male				Female			
<b>#Skin:</b>								
<b>Fibrous Histiocytoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Hemangiosarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Keratoacanthoma</b>								
		2/50	(4%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	2/50	(4%)	Mean 4%	SD 0%	Total	1/50	(2%)
.....								
<b>#Skin:</b>								
<b>Lipoma</b>								
		1/50	(2%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Liposarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Neural Crest Tumor</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 200  
 Report Date: 06/05/2013

	Male				Female			
<b>#Skin:</b>								
<b>Neurofibroma or Schwannoma benign</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Neurofibrosarcoma or Schwannoma (malignant or NOS)</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
<b>#Skin:</b>								
<b>Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
<b>#Skin:</b>								
<b>Sarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Schwannoma Benign</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin:</b>								
<b>Schwannoma Malignant</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 201  
 Report Date: 06/05/2013

		Male			Female		
<b>#Skin:</b>							
<b>Squamous Cell Carcinoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
<b>#Skin:</b>							
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>							
		0/50	(0%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
<b>#Skin:</b>							
<b>Squamous Cell Papilloma</b>							
		2/50	(4%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
<b>#Skin:</b>							
<b>Squamous Cell Papilloma or Papilloma</b>							
		2/50	(4%)		0/50	(0%)	
<b>Overall Incidence</b>	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
<b>#Skin:</b>							
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>							
		4/50	(8%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	4/50	(8%)	Mean 8%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
.....							
<b>#Skin:</b>							
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>							
		4/50	(8%)		1/50	(2%)	
<b>Overall Incidence</b>	Total	4/50	(8%)	Mean 8%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 202  
 Report Date: 06/05/2013

	Male				Female			
<b>#Skin:</b>								
<b>Trichoepithelioma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Skin: Sebaceous Gland:</b>								
<b>Adenoma</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
<b>#Skin: Sebaceous Gland:</b>								
<b>Carcinoma or Adenoma</b>								
		0/50	(0%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
<b>#Spinal Cord:</b>								
<b>Glioma Malignant</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Stomach, Glandular:</b>								
<b>Carcinoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>#Stomach, Glandular:</b>								
<b>Carcinoma or Adenoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 203  
 Report Date: 06/05/2013

	Male				Female			
<b>#Stomach, Glandular:</b>								
<b>Sarcoma</b>								
		0/50	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
<b>*Testes:</b>								
<b>Adenoma</b>								
		41/50	(82%)					
<b>Overall Incidence</b>	Total	41/50	(82%)	Mean 82%	SD 0%			
.....								
<b>*Testes:</b>								
<b>Hemangioma</b>								
		0/50	(0%)					
<b>Overall Incidence</b>	Total	0/50	(0%)	Mean 0%	SD 0%			
.....								
<b>*Thymus:</b>								
<b>Thymoma Benign</b>								
		1/48	(2%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	1/48	(2.08%)	Mean 2.08%	SD 0%	Total	0/50	(0%)
.....								
<b>*Thymus:</b>								
<b>Thymoma Malignant</b>								
		1/48	(2%)			1/50	(2%)	
<b>Overall Incidence</b>	Total	1/48	(2.08%)	Mean 2.08%	SD 0%	Total	1/50	(2%)
.....								
<b>*Thymus:</b>								
<b>Thymoma NOS</b>								
		0/48	(0%)			0/50	(0%)	
<b>Overall Incidence</b>	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 204  
 Report Date: 06/05/2013

	Male				Female			
<b>*Thymus:</b>								
<b>Thymoma: Benign, Malignant, NOS</b>								
		2/48 (4%)			1/50 (2%)			
<b>Overall Incidence</b>	Total	2/48 (4.17%)	Mean 4.17%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
<b>*Thyroid Gland: C-Cell:</b>								
<b>Adenoma</b>								
		12/50 (24%)			6/50 (12%)			
<b>Overall Incidence</b>	Total	12/50 (24%)	Mean 24%	SD 0%	Total	6/50 (12%)	Mean 12%	SD 0%
.....								
<b>*Thyroid Gland: C-Cell:</b>								
<b>Carcinoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>*Thyroid Gland: C-Cell:</b>								
<b>Carcinoma or Adenoma</b>								
		12/50 (24%)			6/50 (12%)			
<b>Overall Incidence</b>	Total	12/50 (24%)	Mean 24%	SD 0%	Total	6/50 (12%)	Mean 12%	SD 0%
.....								
<b>*Thyroid Gland: Follicular Cell:</b>								
<b>Adenoma</b>								
		1/50 (2%)			1/50 (2%)			
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
<b>*Thyroid Gland: Follicular Cell:</b>								
<b>Carcinoma</b>								
		0/50 (0%)			0/50 (0%)			
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 205  
 Report Date: 06/05/2013

		Male			Female		
<b>*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma</b>							
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
<b>#Tongue: Squamous Cell Carcinoma</b>							
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>#Tongue: Squamous Cell Carcinoma or Papilloma Squamous</b>							
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>#Tongue: Squamous Cell Papilloma</b>							
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>#Tooth: Adamantinoma Malignant</b>							
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
<b>*Urinary Bladder: Carcinoma</b>							
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 206  
 Report Date: 06/05/2013

	Male				Female			
<b>*Urinary Bladder: Carcinoma or Papilloma</b>								
		1/50 (2%)				0/50 (0%)		
<b>Overall Incidence</b>	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>*Urinary Bladder: Hemangiosarcoma</b>								
		0/50 (0%)				0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>*Urinary Bladder: Papilloma</b>								
		0/50 (0%)				0/50 (0%)		
<b>Overall Incidence</b>	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Uterus: Adenoma</b>								
						0/50 (0%)		
<b>Overall Incidence</b>					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Uterus: Carcinoma</b>								
						0/50 (0%)		
<b>Overall Incidence</b>					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
<b>#Uterus: Leiomyosarcoma</b>								
						0/50 (0%)		
<b>Overall Incidence</b>					Total	0/50 (0%)	Mean 0%	SD 0%

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

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 207  
 Report Date: 06/05/2013

	Male	Female
<b>#Uterus:</b>		
<b>Polyp Stromal</b>		
Overall Incidence	Total 6/50 (12%)	Mean 12% SD 0%
<b>#Uterus:</b>		
<b>Sarcoma</b>		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
<b>#Uterus:</b>		
<b>Sarcoma Stromal</b>		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
<b>#Uterus:</b>		
<b>Sarcoma Stromal or Polyp Stromal</b>		
Overall Incidence	Total 6/50 (12%)	Mean 12% SD 0%
<b>#Uterus:</b>		
<b>Schwannoma Malignant</b>		
Overall Incidence	Total 1/50 (2%)	Mean 2% SD 0%
<b>#Vagina:</b>		
<b>Polyp</b>		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jun2013  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F 344/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: PERINATAL AND POSTNATAL  
 Vehicle: FEED

Page: 208  
 Report Date: 06/05/2013

Male					Female						
<b>#Vagina:</b>											
Sarcoma											
					0/50 (0%)						
Overall Incidence					Total		0/50 (0%)		Mean 0%		SD 0%
.....											
<b>#Vagina:</b>											
Schwannoma Malignant											
					0/50 (0%)						
Overall Incidence					Total		0/50 (0%)		Mean 0%		SD 0%
.....											
<b>#Zymbal's Gland:</b>											
Adenoma											
					0/50 (0%)						
Overall Incidence		Total		0/50 (0%)		Mean 0%		SD 0%			
					0/50 (0%)						
Overall Incidence		Total		0/50 (0%)		Mean 0%		SD 0%			
.....											
<b>#Zymbal's Gland:</b>											
Carcinoma											
					0/50 (0%)						
Overall Incidence		Total		1/50 (2%)		Mean 2%		SD 0%			
					0/50 (0%)						
Overall Incidence		Total		1/50 (2%)		Mean 2%		SD 0%			
.....											
<b>#Zymbal's Gland:</b>											
Carcinoma or Adenoma											
					0/50 (0%)						
Overall Incidence		Total		1/50 (2%)		Mean 2%		SD 0%			
					0/50 (0%)						
Overall Incidence		Total		1/50 (2%)		Mean 2%		SD 0%			

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