



National Toxicology Program
Department of Health and Human Services

NTP Historical Controls Report

By Route and Vehicle

Harlan Sprague-Dawley RATS

December 2020

REPORT DESCRIPTION

This report shows the tumor rates of control group animals from selected studies. The studies used are shown on the Study Summary page.

This report is broken up into sections based on the route and vehicle used to deliver the chemical. The Table of Contents on Page 3 shows the different Route/Vehicle combinations. To see the data from all routes and vehicles combined into one set, you must run the "All Routes" report.

The individual tumor rates shown on the data pages of the report relate to the Study Summary page as follows: the tumor rates are shown in the same order as the Study Summary page, except that they are grouped horizontally in sets of three, with the males in the first set of three and the females in the second set. For example if the study summary showed the studies like this:

Male

M1

M2

M3

M4

M5

Female

F1

F2

F3

F4

F5

the data would be shown as:

Male			Female		
M1	M2	M3	F1	F2	F3
M4	M5		F4	F5	

Directly beneath the individual tumor rates on the data pages are the overall totals for that tumor/site combination. This includes the total tumors/animals, the overall mean (in parentheses), the mean of the study means, and the standard deviation of the study means.

Studies with no control animals of a particular gender are listed on the summary page with the Number of Animals shown as zero and the Start Date and Length of Study shown as "N/A". On the data pages there are blank spaces where tumor rates for these studies would normally be found, so that the male and female rates for the remaining studies can be easily compared.

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Version: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

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

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Report Date: 12/30/2020

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 Columbus Laboratory	052000603	03/14/07	727	50(3)	20(644)	584.8	Indole-3-carbinol
Female							
Battelle Columbus Laboratory	052000603	03/15/07	729	50(5)	21(637)	353.0	Indole-3-carbinol

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#All Organs:								
Benign Tumors								
		27/50 (54%)			40/50 (80%)			
Overall Incidence	Total	27/50 (54%)	Mean 54%	SD 0%	Total	40/50 (80%)	Mean 80%	SD 0%
.....								
#All Organs:								
Malignant Tumors								
		12/50 (24%)			19/50 (38%)			
Overall Incidence	Total	12/50 (24%)	Mean 24%	SD 0%	Total	19/50 (38%)	Mean 38%	SD 0%
.....								
#All Organs:								
Malignant and Benign Tumors								
		33/50 (66%)			46/50 (92%)			
Overall Incidence	Total	33/50 (66%)	Mean 66%	SD 0%	Total	46/50 (92%)	Mean 92%	SD 0%
.....								
#All Organs:								
Hemangioma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Hemangiosarcoma								
		1/50 (2%)			1/50 (2%)			
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#All Organs:								
Hemangiosarcoma or Hemangioma								
		1/50 (2%)			1/50 (2%)			
Overall Incidence	Total	1/50 (2%)	Mean 2%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
#All Organs:							
Histiocytic Sarcoma							
		0/50	(0%)		1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
						Mean 2%	SD 0%
.....							
#All Organs:							
Leukemia: Granulocytic							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Malignant Schwannoma							
		2/50	(4%)		2/50	(4%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
.....							
#All Organs:							
Mesothelioma: Benign, Malignant, NOS							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Mesothelioma: Malignant							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma or Osteoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Adenoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Medulla:							
Ganglioneuroma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Adrenal Medulla:							
Pheochromocytoma Benign							
		5/50 (10%)			0/50 (0%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma Complex							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma Malignant							
		2/50 (4%)			0/50 (0%)		
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma: Benign, Complex, Malignant, NOS							
		8/50 (16%)			0/50 (0%)		
Overall Incidence	Total	8/50 (16%)	Mean 16%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Bone:							
Osteosarcoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Bone:							
Osteosarcoma or Osteoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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	Male	Female
*Brain: Glioma Malignant		
Overall Incidence		
.....		
*Brain: Granular Cell Tumor Benign		
Overall Incidence		
.....		
*Brain: Granular Cell Tumor Malignant		
Overall Incidence		
.....		
*Brain: Meningioma Benign		
Overall Incidence		
.....		
*Brain: Meningioma Malignant		
Overall Incidence		
.....		
*Brain: Meningioma: Benign, Malignant, NOS		
Overall Incidence		
.....		

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Brain:								
Oligodendroglioma, Glioma, or Astrocytoma								
Overall Incidence								
.....								
*Brain:								
Schwannoma Malignant								
Overall Incidence								
.....								
*Clitoral/Preputial Gland:								
Adenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Squamous Cell Carcinoma								
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Clitoral/Preputial Gland:								
Squamous Cell Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Epididymis:								
Sarcoma								
		0/50	(0%)					
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%			
.....								
#Eye:								
Leiomyoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Heart:								
Schwannoma Malignant								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
#Intestine Large: Cecum:								
Liposarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Intestine Large: Colon/Rectum:								
Granular Cell Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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Male					Female				
#Intestine Large: Colon/Rectum:									
Leiomyoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Islets, Pancreatic:							
Adenoma							
		2/50	(4%)		0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Islets, Pancreatic:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Islets, Pancreatic:							
Carcinoma or Adenoma							
		2/50	(4%)		0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Kidney: Pelvis and Transitional Epithelium:							
Papilloma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Kidney: Renal Tubule:							
Adenoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Kidney: Renal Tubule:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Lipoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Nephroblastoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Oncocytoma Benign									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Lacrimal Gland:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Cholangiocarcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Cholangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hepatocellular Adenoma									
		1/50	(2%)			2/50	(4%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	2/50	(4%)	Mean 4% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Liver:							
Hepatocellular Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
*Liver:							
Hepatocellular Carcinoma or Hepatoblastoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
*Liver:							
Hepatocellular Carcinoma or Hepatocellular Adenoma							
		1/50	(2%)		2/50	(4%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
*Liver:							
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma							
		1/50	(2%)		2/50	(4%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
*Lung:							
Alveolar/Bronchiolar Adenoma							
		0/49	(0%)		1/50	(2%)	
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
						Mean 2%	SD 0%
*Lung:							
Alveolar/Bronchiolar Carcinoma							
		0/49	(0%)		0/50	(0%)	
Overall Incidence	Total	0/49	(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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Lung:								
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma								
		0/49 (0%)			1/50 (2%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
*Lung:								
Sarcoma								
		0/49 (0%)			1/50 (2%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
*Lung:								
Squamous Cell Carcinoma								
		0/49 (0%)			0/50 (0%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		1/50 (2%)			0/50 (0%)			
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenolipoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/50 (0%)			3/50 (6%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	3/50 (6%)	Mean 6%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
#Mammary Gland:							
Carcinoma							
		0/50	(0%)		3/50	(6%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	3/50 (6%)
							Mean 6%
							SD 0%
.....							
#Mammary Gland:							
Carcinoma or Adenoma							
		0/50	(0%)		6/50	(12%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	6/50 (12%)
							Mean 12%
							SD 0%
.....							
#Mammary Gland:							
Fibroadenoma							
		1/50	(2%)		29/50	(58%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	29/50 (58%)
							Mean 58%
							SD 0%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma or Adenoma							
		1/50	(2%)		30/50	(60%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	30/50 (60%)
							Mean 60%
							SD 0%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma, Carcinoma, or Adenoma							
		1/50	(2%)		32/50	(64%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	32/50 (64%)
							Mean 64%
							SD 0%
.....							
#Mammary Gland:							
Myoepithelioma							
		0/50	(0%)		1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Nose:								
Carcinoma								
		0/50	(0%)			0/49	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)
								Mean 0%
								SD 0%
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Oral Mucosa:								
Squamous Cell Carcinoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Ovary:								
Cystadenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Ovary:								
Granulosa Cell Tumor Benign								
						0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
*Ovary:				
Granulosa Cell Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Benign				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Luteoma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Schwannoma Malignant				
		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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Male					Female			
*Ovary:								
Sertoli Cell Tumor Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Thecoma Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Tubulostromal Carcinoma								
					1/50	(2%)		
Overall Incidence					Total	1/50 (2%)	Mean 2%	SD 0%
.....								
*Pancreas:								
Adenoma								
		5/50	(10%)					
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma								
		0/50	(0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma or Adenoma								
		5/50	(10%)					
Overall Incidence	Total	5/50 (10%)	Mean 10%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Parathyroid Gland:							
Adenoma							
		0/43 (0%)			0/47 (0%)		
Overall Incidence	Total	0/43 (0%)	Mean 0%	SD 0%	Total	0/47 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Paranglioma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Schwannoma Malignant							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Schwannoma: Benign, Malignant, NOS							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Adenoma							
		5/50 (10%)			18/50 (36%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	18/50 (36%)	Mean 36% SD 0%
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Carcinoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Pituitary Gland: Pars Distalis or Unspecified Site:							
 Carcinoma or Adenoma							
		5/50 (10%)			18/50 (36%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	18/50 (36%)	Mean 36% SD 0%
.....							
*Pituitary Gland: Pars Intermedia:							
 Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Intermedia:							
 Carcinoma or Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Nervosa:							
 Schwannoma Malignant							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Prostate:							
 Adenoma							
		0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%			
.....							
*Prostate:							
 Carcinoma or Adenoma							
		0/50 (0%)					
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50	(0%)						
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		6/50	(12%)			0/50	(0%)	
Overall Incidence	Total	6/50	(12%)	Mean 12%	SD 0%	Total	0/50	(0%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male				Female			
#Skin:								
Fibroma								
		5/50 (10%)			1/50 (2%)			
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma								
		7/50 (14%)			2/50 (4%)			
Overall Incidence	Total	7/50 (14%)	Mean 14%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma								
		7/50 (14%)			2/50 (4%)			
Overall Incidence	Total	7/50 (14%)	Mean 14%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
.....								
#Skin:								
Fibrosarcoma								
		1/50 (2%)			1/50 (2%)			
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Skin:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma								
		2/50 (4%)			1/50 (2%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Skin:								
Hemangioma								
		0/50 (0%)			0/50 (0%)			
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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		Male				Female			
#Skin:									
Hemangiopericytoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Hemangiosarcoma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
#Skin:									
Keratoacanthoma									
		4/50	(8%)			0/50	(0%)		
Overall Incidence	Total	4/50	(8%)	Mean 8%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Lipoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Malignant Fibrous Histiocytoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/50 (0%)			1/50 (2%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		0/50 (0%)			1/50 (2%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Skin:								
Osteosarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Pilomatrixoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Sarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Schwannoma Malignant								
		0/50 (0%)			1/50 (2%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male				Female			
#Skin:								
Squamous Cell Carcinoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma								
		2/50	(4%)			0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Papilloma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Papilloma or Papilloma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma								
		5/50	(10%)			0/50	(0%)	
Overall Incidence	Total	5/50	(10%)	Mean 10%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma								
		5/50	(10%)			0/50	(0%)	
Overall Incidence	Total	5/50	(10%)	Mean 10%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: GAVAGE
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	Male				Female			
#Skin:								
Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Carcinoma or Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Spinal Cord:								
Astrocytoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Spleen:								
Hemangiosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Stomach, Forestomach:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Stomach, Forestomach:								
Squamous Cell Carcinoma								
		1/50	(2%)			1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Carcinoma or Papilloma Squamous								
		1/50	(2%)			1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Testis:								
Adenoma								
		3/49	(6%)					
Overall Incidence	Total	3/49	(6.12%)	Mean 6.12%	SD 0%			
.....								
*Thymus:								
Thymoma Benign								
		1/46	(2%)			0/47	(0%)	
Overall Incidence	Total	1/46	(2.17%)	Mean 2.17%	SD 0%	Total	0/47	(0%)
								Mean 0%
								SD 0%
.....								
*Thymus:								
Thymoma Malignant								
		0/46	(0%)			0/47	(0%)	
Overall Incidence	Total	0/46	(0%)	Mean 0%	SD 0%	Total	0/47	(0%)
								Mean 0%
								SD 0%
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Thymus:							
Thymoma: Benign, Malignant, NOS							
		1/46 (2%)			0/47 (0%)		
Overall Incidence	Total	1/46 (2.17%)	Mean 2.17%	SD 0%	Total	0/47 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: C-Cell: Adenoma							
		13/50 (26%)			11/49 (22%)		
Overall Incidence	Total	13/50 (26%)	Mean 26%	SD 0%	Total	11/49 (22.45%)	Mean 22.45% SD 0%
.....							
*Thyroid Gland: C-Cell: Carcinoma							
		0/50 (0%)			0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: C-Cell: Carcinoma or Adenoma							
		13/50 (26%)			11/49 (22%)		
Overall Incidence	Total	13/50 (26%)	Mean 26%	SD 0%	Total	11/49 (22.45%)	Mean 22.45% SD 0%
.....							
*Thyroid Gland: Follicular Cell: Adenoma							
		0/50 (0%)			0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: Follicular Cell: Carcinoma							
		0/50 (0%)			0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
#Tissue NOS: Schwannoma Malignant							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tooth: Odontoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Urinary Bladder: Leiomyosarcoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
#Uterus:				
Adenocarcinoma				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				
#Uterus:				
Adenocarcinoma or Adenoma				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				
#Uterus:				
Adenoma				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				
#Uterus:				
Deciduoma Benign				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Granular Cell Tumor Benign				
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male	Female
#Uterus: Hemangioma		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
#Uterus: Papilloma		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
#Uterus: Polyp Stromal		
Overall Incidence	Total 10/50 (20%)	Mean 20% SD 0%
#Uterus: Sarcoma		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
#Uterus: Sarcoma Stromal		
Overall Incidence	Total 2/50 (4%)	Mean 4% SD 0%
#Uterus: Sarcoma Stromal or Polyp Stromal		
Overall Incidence	Total 12/50 (24%)	Mean 24% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male		Female	
#Uterus: Schwannoma Malignant				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Uterus: Sq Cell Carcinoma or Papilloma Squamous				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Uterus: Squamous Cell Carcinoma				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Vagina: Granular Cell Tumor Benign				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Vagina: Polyp				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%
#Vagina: Sarcoma				
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

Male					Female			
#Vagina:								
Schwannoma Malignant								
					1/50	(2%)		
Overall Incidence					Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Zymbal's Gland:								
Adenoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma or Adenoma								
					0/50	(0%)		
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: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

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

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Report Date: 12/30/2020

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	051047203	01/17/11	729	50(5)	25(661)	609.4	p-Chloro-a,a,a-trifluorotoluene
Female							
Battelle Northwest	051047203	01/17/11	731	50(5)	22(626)	377.3	p-Chloro-a,a,a-trifluorotoluene

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Benign Tumors							
		30/50 (60%)			39/50 (78%)		
Overall Incidence	Total	30/50 (60%)	Mean 60%	SD 0%	Total	39/50 (78%)	Mean 78% SD 0%
.....							
#All Organs:							
Malignant Tumors							
		12/50 (24%)			11/50 (22%)		
Overall Incidence	Total	12/50 (24%)	Mean 24%	SD 0%	Total	11/50 (22%)	Mean 22% SD 0%
.....							
#All Organs:							
Malignant and Benign Tumors							
		37/50 (74%)			41/50 (82%)		
Overall Incidence	Total	37/50 (74%)	Mean 74%	SD 0%	Total	41/50 (82%)	Mean 82% SD 0%
.....							
#All Organs:							
Hemangioma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Histiocytic Sarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Leukemia: Granulocytic							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated							
		3/50	(6%)		0/50	(0%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#All Organs:							
Malignant Schwannoma							
		0/50	(0%)		2/50	(4%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
.....							
#All Organs:							
Mesothelioma: Benign, Malignant, NOS							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Mesothelioma: Malignant							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma or Osteoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Adenoma							
		3/50	(6%)		0/50	(0%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Medulla:							
Ganglioneuroma							
		0/50	(0%)		0/49	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/49 (0%)
							Mean 0%
							SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Adrenal Medulla:							
 Pheochromocytoma Benign							
		12/50 (24%)			0/49 (0%)		
Overall Incidence	Total	12/50 (24%)	Mean 24%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
 Pheochromocytoma Complex							
		0/50 (0%)			0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
 Pheochromocytoma Malignant							
		2/50 (4%)			0/49 (0%)		
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
 Pheochromocytoma: Benign, Complex, Malignant, NOS							
		14/50 (28%)			0/49 (0%)		
Overall Incidence	Total	14/50 (28%)	Mean 28%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
#Bone:							
 Osteosarcoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Bone:							
 Osteosarcoma or Osteoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
*Brain:									
 Glioma Malignant									
			2/50 (4%)			1/50 (2%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%	
.....									
*Brain:									
 Granular Cell Tumor Benign									
			0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
 Granular Cell Tumor Malignant									
			0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
 Meningioma Benign									
			0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
 Meningioma Malignant									
			0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
 Meningioma: Benign, Malignant, NOS									
			0/50 (0%)			0/50 (0%)			
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		2/50	(4%)			1/50	(2%)		
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
*Brain:									
Schwannoma Malignant									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
*Clitoral/Preputial Gland:									
Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Clitoral/Preputial Gland:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Clitoral/Preputial Gland:									
Carcinoma or Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Carcinoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

Page: 45
 Report Date: 12/30/2020

		Male				Female			
*Clitoral/Preputial Gland:									
 Squamous Cell Papilloma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Epididymis:									
 Sarcoma									
		1/50	(2%)						
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%				
.....									
#Eye:									
 Leiomyoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Heart:									
 Schwannoma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Intestine Large: Cecum:									
 Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Intestine Large: Colon/Rectum:									
 Granular Cell Tumor Benign									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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Male					Female				
#Intestine Large: Colon/Rectum:									
Leiomyoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0%
									SD 0%
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0%
									SD 0%
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0%
									SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0%
									SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0%
									SD 0%
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Islets, Pancreatic:							
Adenoma							
		8/50 (16%)			1/50 (2%)		
Overall Incidence	Total	8/50 (16%)	Mean 16%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
*Islets, Pancreatic:							
Carcinoma							
		0/50 (0%)			1/50 (2%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
*Islets, Pancreatic:							
Carcinoma or Adenoma							
		8/50 (16%)			2/50 (4%)		
Overall Incidence	Total	8/50 (16%)	Mean 16%	SD 0%	Total	2/50 (4%)	Mean 4% SD 0%
.....							
*Kidney: Pelvis and Transitional Epithelium:							
Papilloma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule:							
Adenoma							
		0/50 (0%)			1/50 (2%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
*Kidney: Renal Tubule:							
Carcinoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%	
.....									
*Kidney: Renal Tubule: Hemangioma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Lipoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Liposarcoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Nephroblastoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Oncocytoma Benign									
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule:									
 Polyp Adenomatous									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Lacrimal Gland:									
 Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Cholangiocarcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Cholangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Hepatocellular Adenoma									
		0/50	(0%)			2/50	(4%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	2/50	(4%)	Mean 4%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Liver:							
Hepatocellular Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatoblastoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatocellular Adenoma							
		0/50	(0%)		2/50	(4%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50 (4%)
							Mean 4%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma							
		0/50	(0%)		2/50	(4%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50 (4%)
							Mean 4%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Adenoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Carcinoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Lung:								
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Sarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Squamous Cell Carcinoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenolipoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/50 (0%)			4/50 (8%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	4/50 (8%)	Mean 8%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Mammary Gland:								
Carcinoma								
		0/50	(0%)			5/50	(10%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	5/50 (10%)	Mean 10% SD 0%
.....								
#Mammary Gland:								
Carcinoma or Adenoma								
		0/50	(0%)			9/50	(18%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	9/50 (18%)	Mean 18% SD 0%
.....								
#Mammary Gland:								
Fibroadenoma								
		2/50	(4%)			20/50	(40%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	20/50 (40%)	Mean 40% SD 0%
.....								
#Mammary Gland:								
Fibroma, Fibroadenoma or Adenoma								
		2/50	(4%)			23/50	(46%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	23/50 (46%)	Mean 46% SD 0%
.....								
#Mammary Gland:								
Fibroma, Fibroadenoma, Carcinoma, or Adenoma								
		2/50	(4%)			27/50	(54%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	27/50 (54%)	Mean 54% SD 0%
.....								
#Mammary Gland:								
Myoepithelioma								
		0/50	(0%)			0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Nose:								
Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Mucosa:								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Ovary:								
Cystadenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Granulosa Cell Tumor Benign								
						3/50	(6%)	
Overall Incidence						Total	3/50	(6%)
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
*Ovary:				
Granulosa Cell Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		3/50	(6%)	
Overall Incidence	Total	3/50	(6%)	Mean 6% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Benign				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Luteoma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Schwannoma Malignant				
		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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Male					Female					
*Ovary:										
Sertoli Cell Tumor Benign										
					0/50 (0%)					
Overall Incidence					Total 0/50 (0%)		Mean 0%		SD 0%	
.....										
*Ovary:										
Thecoma Benign										
					1/50 (2%)					
Overall Incidence					Total 1/50 (2%)		Mean 2%		SD 0%	
.....										
*Ovary:										
Tubulostromal Carcinoma										
					0/50 (0%)					
Overall Incidence					Total 0/50 (0%)		Mean 0%		SD 0%	
.....										
*Pancreas:										
Adenoma										
					0/50 (0%)					
Overall Incidence					Total 0/50 (0%)		Mean 0%		SD 0%	
.....										
*Pancreas:										
Carcinoma										
					0/50 (0%)					
Overall Incidence					Total 0/50 (0%)		Mean 0%		SD 0%	
.....										
*Pancreas:										
Carcinoma or Adenoma										
					0/50 (0%)					
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Parathyroid Gland:							
Adenoma							
		0/48	(0%)		0/45	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/45 (0%)
						Mean 0%	SD 0%
.....							
#Peripheral Nerve:							
Paranganglioma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#Peripheral Nerve:							
Schwannoma Malignant							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
#Peripheral Nerve:							
Schwannoma: Benign, Malignant, NOS							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Adenoma							
		11/50	(22%)		18/50	(36%)	
Overall Incidence	Total	11/50	(22%)	Mean 22%	SD 0%	Total	18/50 (36%)
						Mean 36%	SD 0%
.....							
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Pituitary Gland: Pars Distalis or Unspecified Site:							
 Carcinoma or Adenoma							
		11/50 (22%)			18/50 (36%)		
Overall Incidence	Total	11/50 (22%)	Mean 22%	SD 0%	Total	18/50 (36%)	Mean 36% SD 0%
.....							
*Pituitary Gland: Pars Intermedia:							
 Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Intermedia:							
 Carcinoma or Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Nervosa:							
 Schwannoma Malignant							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Prostate:							
 Adenoma							
		0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%			
.....							
*Prostate:							
 Carcinoma or Adenoma							
		0/50 (0%)					
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50	(0%)						
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	1/50	(2%)	Mean 2%	SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		4/50	(8%)			1/50	(2%)	
Overall Incidence	Total	4/50	(8%)	Mean 8%	SD 0%	Total	1/50	(2%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#Skin:							
Fibroma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
				Mean 0%	SD 0%		
.....							
#Skin:							
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
				Mean 0%	SD 0%		
.....							
#Skin:							
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
				Mean 0%	SD 0%		
.....							
#Skin:							
Fibrosarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
				Mean 0%	SD 0%		
.....							
#Skin:							
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
				Mean 0%	SD 0%		
.....							
#Skin:							
Hemangioma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male				Female			
#Skin:								
Hemangiopericytoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Hemangiosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Keratoacanthoma								
		3/50	(6%)			0/50	(0%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Lipoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Liposarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Malignant Fibrous Histiocytoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
#Skin:								
Osteosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
#Skin:								
Pilomatrixoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
#Skin:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
#Skin:								
Schwannoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#Skin:							
Squamous Cell Carcinoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Skin:							
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma							
		0/50 (0%)			1/50 (2%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
#Skin:							
Squamous Cell Papilloma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Skin:							
Squamous Cell Papilloma or Papilloma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Skin:							
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma							
		4/50 (8%)			0/50 (0%)		
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Skin:							
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma							
		4/50 (8%)			0/50 (0%)		
Overall Incidence	Total	4/50 (8%)	Mean 8%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#Skin:									
Trichoepithelioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Skin: Sebaceous Gland:									
Adenoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Skin: Sebaceous Gland:									
Carcinoma or Adenoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Spinal Cord:									
Astrocytoma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Spleen:									
Hemangiosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Stomach, Forestomach:									
Sarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Testis:									
Adenoma									
		0/50	(0%)						
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
*Thymus:									
Thymoma Benign									
		0/48	(0%)			0/50	(0%)		
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Thymus:									
Thymoma Malignant									
		0/48	(0%)			0/50	(0%)		
Overall Incidence	Total	0/48	(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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Thymus:							
Thymoma: Benign, Malignant, NOS							
		0/48	(0%)		0/50	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Thyroid Gland: C-Cell:							
Adenoma							
		2/50	(4%)		2/50	(4%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma or Adenoma							
		3/50	(6%)		2/50	(4%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	2/50 (4%)
						Mean 4%	SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Adenoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tissue NOS: Schwannoma Malignant							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tooth: Odontoma							
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Urinary Bladder: Leiomyosarcoma							
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male	Female
#Uterus:		
Adenocarcinoma		
Overall Incidence	Total 1/50 (2%)	Mean 2% SD 0%
.....		
#Uterus:		
Adenocarcinoma or Adenoma		
Overall Incidence	Total 1/50 (2%)	Mean 2% SD 0%
.....		
#Uterus:		
Adenoma		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
Overall Incidence	Total 2/50 (4%)	Mean 4% SD 0%
.....		
#Uterus:		
Deciduoma Benign		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Granular Cell Tumor Benign		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male		Female	
#Uterus:				
Hemangioma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Papilloma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Polyp Stromal				
		7/50	(14%)	
Overall Incidence	Total	7/50	(14%)	Mean 14% SD 0%
.....				
#Uterus:				
Sarcoma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Sarcoma Stromal				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Sarcoma Stromal or Polyp Stromal				
		7/50	(14%)	
Overall Incidence	Total	7/50	(14%)	Mean 14% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

	Male		Female	
#Uterus:				
Schwannoma Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Sq Cell Carcinoma or Papilloma Squamous				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
#Uterus:				
Squamous Cell Carcinoma				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
#Vagina:				
Granular Cell Tumor Benign				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
#Vagina:				
Polyp				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Vagina:				
Sarcoma				
		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

Male					Female			
#Vagina:								
Schwannoma Malignant								
					1/50	(2%)		
Overall Incidence					Total	1/50 (2%)	Mean 2%	SD 0%
.....								
#Zymbal's Gland:								
Adenoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma								
					1/50	(2%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma or Adenoma								
					1/50	(2%)		
Overall Incidence	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: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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Report Date: 12/30/2020

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 Columbus Laboratory	051018801	02/17/11	733	50(2)	32(675)	525.8	Di(2-ethylhexyl) Phthalate
Female							
Battelle Columbus Laboratory	051018801	02/18/11	736	50(4)	33(691)	329.5	Di(2-ethylhexyl) Phthalate

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

Page: 73
 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Benign Tumors							
		27/50 (54%)			37/50 (74%)		
Overall Incidence	Total	27/50 (54%)	Mean 54%	SD 0%	Total	37/50 (74%)	Mean 74% SD 0%
.....							
#All Organs:							
Malignant Tumors							
		13/50 (26%)			16/50 (32%)		
Overall Incidence	Total	13/50 (26%)	Mean 26%	SD 0%	Total	16/50 (32%)	Mean 32% SD 0%
.....							
#All Organs:							
Malignant and Benign Tumors							
		32/50 (64%)			41/50 (82%)		
Overall Incidence	Total	32/50 (64%)	Mean 64%	SD 0%	Total	41/50 (82%)	Mean 82% SD 0%
.....							
#All Organs:							
Hemangioma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

		Male			Female				
#All Organs:									
Histiocytic Sarcoma									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#All Organs:									
Leukemia: Granulocytic									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#All Organs:									
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#All Organs:									
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type									
		2/50	(4%)		1/50	(2%)			
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....									
#All Organs:									
Malignant Schwannoma									
		3/50	(6%)		1/50	(2%)			
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....									
#All Organs:									
Mesothelioma: Benign, Malignant, NOS									
		2/50	(4%)		0/50	(0%)			
Overall Incidence	Total	2/50	(4%)	Mean 4%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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		Male			Female		
#All Organs:							
Mesothelioma: Malignant							
		2/50	(4%)		0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Osteosarcoma or Osteoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Adenoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Cortex:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Medulla:							
Ganglioneuroma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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 Report Date: 12/30/2020

		Male			Female		
*Adrenal Medulla:							
Pheochromocytoma Benign							
		4/50	(8%)		1/50	(2%)	
Overall Incidence	Total	4/50	(8%)	Mean 8%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma Complex							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma Malignant							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma: Benign, Complex, Malignant, NOS							
		5/50	(10%)		1/50	(2%)	
Overall Incidence	Total	5/50	(10%)	Mean 10%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
.....							
#Bone:							
Osteosarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#Bone:							
Osteosarcoma or Osteoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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		Male				Female			
*Brain:									
Glioma Malignant									
		4/50	(8%)			0/50	(0%)		
Overall Incidence	Total	4/50	(8%)	Mean 8%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Granular Cell Tumor Benign									
		3/50	(6%)			2/50	(4%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	2/50	(4%)	Mean 4% SD 0%
.....									
*Brain:									
Granular Cell Tumor Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Meningioma Benign									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Meningioma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Brain:									
Meningioma: Benign, Malignant, NOS									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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	Male				Female			
*Brain:								
Oligodendroglioma, Glioma, or Astrocytoma								
		4/50	(8%)			0/50	(0%)	
Overall Incidence	Total	4/50	(8%)	Mean 8%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
*Brain:								
Schwannoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Adenoma								
		0/49	(0%)			0/49	(0%)	
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma								
		1/49	(2%)			0/49	(0%)	
Overall Incidence	Total	1/49	(2.04%)	Mean 2.04%	SD 0%	Total	0/49	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma or Adenoma								
		1/49	(2%)			0/49	(0%)	
Overall Incidence	Total	1/49	(2.04%)	Mean 2.04%	SD 0%	Total	0/49	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Squamous Cell Carcinoma								
		0/49	(0%)			0/49	(0%)	
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)
							Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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		Male				Female			
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		0/49	(0%)			1/49	(2%)		
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	1/49	(2.04%)	Mean 2.04%	SD 0%
.....									
*Epididymis:									
Sarcoma									
		0/50	(0%)						
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
#Eye:									
Leiomyoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
*Heart:									
Schwannoma Malignant									
		3/50	(6%)			1/50	(2%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	1/50	(2%)	Mean 2%	SD 0%
.....									
#Intestine Large: Cecum:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%
.....									
#Intestine Large: Colon/Rectum:									
Granular Cell Tumor Benign									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	0/50	(0%)	Mean 0%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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 Report Date: 12/30/2020

		Male				Female			
#Intestine Large: Colon/Rectum:									
Leiomyoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

	Male				Female			
*Islets, Pancreatic:								
Adenoma								
		3/49	(6%)			1/50	(2%)	
Overall Incidence	Total	3/49	(6.12%)	Mean 6.12%	SD 0%	Total	1/50	(2%)
							Mean 2%	SD 0%
.....								
*Islets, Pancreatic:								
Carcinoma								
		0/49	(0%)			0/50	(0%)	
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
*Islets, Pancreatic:								
Carcinoma or Adenoma								
		3/49	(6%)			1/50	(2%)	
Overall Incidence	Total	3/49	(6.12%)	Mean 6.12%	SD 0%	Total	1/50	(2%)
							Mean 2%	SD 0%
.....								
*Kidney: Pelvis and Transitional Epithelium:								
Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule:								
Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
							Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule:								
Carcinoma								
		0/50	(0%)			0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

		Male				Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Hemangioma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Lipoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Liposarcoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Nephroblastoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Oncocytoma Benign									
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

		Male			Female		
*Kidney: Renal Tubule:							
Polyp Adenomatous							
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Lacrimal Gland:							
Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Cholangiocarcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Cholangioma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2% SD 0%
.....							
*Liver:							
Hemangioma							
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Hepatocellular Adenoma							
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

Male					Female				
*Liver:									
Hepatocellular Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Lung:									
Alveolar/Bronchiolar Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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 Report Date: 12/30/2020

	Male				Female			
*Lung:								
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Lung:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Lung:								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Mammary Gland:								
Adenolipoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/50	(0%)			0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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 Report Date: 12/30/2020

	Male				Female			
#Mammary Gland: Carcinoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	8/50 (16%)	Mean 16%	SD 0%
.....								
#Mammary Gland: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	8/50 (16%)	Mean 16%	SD 0%
.....								
#Mammary Gland: Fibroadenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	25/50 (50%)	Mean 50%	SD 0%
.....								
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	25/50 (50%)	Mean 50%	SD 0%
.....								
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma								
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	29/50 (58%)	Mean 58%	SD 0%
.....								
#Mammary Gland: Myoepithelioma								
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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 Report Date: 12/30/2020

	Male				Female			
*Nose:								
Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Mucosa:								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Ovary:								
Cystadenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Granulosa Cell Tumor Benign								
						1/50	(2%)	
Overall Incidence						Total	1/50	(2%)
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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	Male		Female	
*Ovary:				
Granulosa Cell Tumor Malignant				
		0/50	(0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		1/50	(2%)	
Overall Incidence		Total	1/50 (2%)	Mean 2% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Benign				
		0/50	(0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50	(0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				
*Ovary:				
Luteoma				
		1/50	(2%)	
Overall Incidence		Total	1/50 (2%)	Mean 2% SD 0%
.....				
*Ovary:				
Schwannoma Malignant				
		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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Male					Female			
*Ovary:								
Sertoli Cell Tumor Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Thecoma Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Tubulostromal Carcinoma								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Adenoma								
		1/49	(2%)					
Overall Incidence	Total	1/49 (2.04%)	Mean 2.04%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma								
		0/49	(0%)					
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma or Adenoma								
		1/49	(2%)					
Overall Incidence	Total	1/49 (2.04%)	Mean 2.04%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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		Male			Female		
*Parathyroid Gland:							
Adenoma							
		0/43 (0%)			0/42 (0%)		
Overall Incidence	Total	0/43 (0%)	Mean 0%	SD 0%	Total	0/42 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Paranglioma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Schwannoma Malignant							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
#Peripheral Nerve:							
Schwannoma: Benign, Malignant, NOS							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Adenoma							
		3/50 (6%)			13/49 (27%)		
Overall Incidence	Total	3/50 (6%)	Mean 6%	SD 0%	Total	13/49 (26.53%)	Mean 26.53% SD 0%
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Carcinoma							
		0/50 (0%)			0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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Male					Female				
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma or Adenoma									
		3/50	(6%)			13/49	(27%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	13/49 (26.53%)	Mean 26.53%	SD 0%
.....									
*Pituitary Gland: Pars Intermedia:									
Adenoma									
		1/50	(2%)			0/49	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
.....									
*Pituitary Gland: Pars Intermedia:									
Carcinoma or Adenoma									
		1/50	(2%)			0/49	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
.....									
*Pituitary Gland: Pars Nervosa:									
Schwannoma Malignant									
		0/50	(0%)			0/49	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
.....									
*Prostate:									
Adenoma									
		1/50	(2%)						
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%				
.....									
*Prostate:									
Carcinoma or Adenoma									
		1/50	(2%)						
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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/50	(0%)			0/49	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)	Mean 0% SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50	(0%)						
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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		Male				Female			
#Skin:									
Fibroma									
		3/50	(6%)			0/50	(0%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	0/50	(0%)	Mean 0%
							0/50	(0%)	SD 0%
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma									
		3/50	(6%)			1/50	(2%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50	(2%)	Mean 2%
							1/50	(2%)	SD 0%
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		3/50	(6%)			1/50	(2%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50	(2%)	Mean 2%
							1/50	(2%)	SD 0%
.....									
#Skin:									
Fibrosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0%
							0/50	(0%)	SD 0%
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2%
							1/50	(2%)	SD 0%
.....									
#Skin:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0%
							0/50	(0%)	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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		Male				Female			
#Skin:									
Hemangiopericytoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Hemangiosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Keratoacanthoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Lipoma									
		3/50	(6%)			0/50	(0%)		
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Malignant Fibrous Histiocytoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Osteosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Pilomatrixoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Sarcoma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
#Skin:								
Schwannoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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		Male			Female				
#Skin:									
Squamous Cell Carcinoma									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#Skin:									
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#Skin:									
Squamous Cell Papilloma									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#Skin:									
Squamous Cell Papilloma or Papilloma									
		0/50	(0%)		0/50	(0%)			
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma									
		1/50	(2%)		0/50	(0%)			
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma									
		1/50	(2%)		0/50	(0%)			
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#Skin:								
Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Carcinoma or Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Spinal Cord:								
Astrocytoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Spleen:								
Hemangiosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Stomach, Forestomach:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
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	Male				Female			
#Stomach, Forestomach:								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Stomach, Forestomach:								
Squamous Cell Carcinoma or Papilloma Squamous								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Stomach, Forestomach:								
Squamous Cell Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Testis:								
Adenoma								
		7/50	(14%)					
Overall Incidence	Total	7/50	(14%)	Mean 14%	SD 0%			
.....								
*Thymus:								
Thymoma Benign								
		0/48	(0%)			0/49	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)
.....								
*Thymus:								
Thymoma Malignant								
		0/48	(0%)			0/49	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/49	(0%)
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
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 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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		Male			Female		
*Thymus:							
Thymoma: Benign, Malignant, NOS							
		0/48 (0%)			0/49 (0%)		
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Adenoma							
		13/50 (26%)			12/50 (24%)		
Overall Incidence	Total	13/50 (26%)	Mean 26%	SD 0%	Total	12/50 (24%)	Mean 24% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma							
		2/50 (4%)			2/50 (4%)		
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	2/50 (4%)	Mean 4% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma or Adenoma							
		14/50 (28%)			14/50 (28%)		
Overall Incidence	Total	14/50 (28%)	Mean 28%	SD 0%	Total	14/50 (28%)	Mean 28% SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Carcinoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
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 Tumor Incidence for Selected Control Animal Groups
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		Male			Female		
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tissue NOS: Schwannoma Malignant							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tooth: Odontoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Urinary Bladder: Leiomyosarcoma							
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

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	Male	Female
#Uterus:		
Adenocarcinoma		
Overall Incidence	Total 2/50 (4%)	Mean 4% SD 0%
#Uterus:		
Adenocarcinoma or Adenoma		
Overall Incidence	Total 2/50 (4%)	Mean 4% SD 0%
#Uterus:		
Adenoma		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
#Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
Overall Incidence	Total 2/50 (4%)	Mean 4% SD 0%
#Uterus:		
Deciduoma Benign		
Overall Incidence	Total 0/50 (0%)	Mean 0% SD 0%
#Uterus:		
Granular Cell Tumor Benign		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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	Male		Female	
#Uterus:				
Hemangioma				
		0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Papilloma				
		0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Polyp Stromal				
		5/50 (10%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				
#Uterus:				
Sarcoma				
		1/50 (2%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%
.....				
#Uterus:				
Sarcoma Stromal				
		0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Sarcoma Stromal or Polyp Stromal				
		5/50 (10%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ORAL
 Vehicle: FEED

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 Report Date: 12/30/2020

	Male		Female	
#Uterus:				
Schwannoma Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Sq Cell Carcinoma or Papilloma Squamous				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Uterus:				
Squamous Cell Carcinoma				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Vagina:				
Granular Cell Tumor Benign				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Vagina:				
Polyp				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
#Vagina:				
Sarcoma				
		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: ORAL
Vehicle: FEED

Page: 105
 Report Date: 12/30/2020

Male					Female			
#Vagina:								
Schwannoma Malignant								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Adenoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma or Adenoma								
					0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

Page: 106
 Report Date: 12/30/2020

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 Columbus Laboratory	051018802	06/27/11	729	50(2)	25(648)	593.4	Di(2-ethylhexyl) Phthalate
Battelle Columbus Laboratory	051098701	08/30/10	729	49(2)	27(672)	628.3	Dibutyl Phthalate
Battelle Columbus Laboratory	051026001	11/08/10	729	50(2)	30(706)	615.3	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052061401	10/27/08	N/A	0(0)	0(0)	N/A	Perfluorooctanoic Acid
Battelle Columbus Laboratory	052061402	07/27/09	743	50(2)	36(684)	609.5	Perfluorooctanoic Acid
Battelle Columbus Laboratory	052071203	12/12/11	729	50(2)	25(652)	589.0	Tris(Chloropropyl)phosphate
Female							
Battelle Columbus Laboratory	051018802	06/28/11	732	50(4)	31(684)	376.1	Di(2-ethylhexyl) Phthalate
Battelle Columbus Laboratory	051098701	08/31/10	730	50(4)	29(668)	397.3	Dibutyl Phthalate
Battelle Columbus Laboratory	051026001	11/09/10	730	50(4)	30(657)	379.6	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052061401	10/28/08	744	50(4)	23(649)	385.9	Perfluorooctanoic Acid
Battelle Columbus Laboratory	052061402	N/A	N/A	0(0)	0(0)	N/A	Perfluorooctanoic Acid
Battelle Columbus Laboratory	052071203	12/13/11	731	50(4)	22(629)	380.1	Tris(Chloropropyl)phosphate

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#All Organs:									
Benign Tumors									
		28/50 (56%)	35/49 (71%)	38/50 (76%)		41/50 (82%)	40/50 (80%)	41/50 (82%)	
			32/50 (64%)	25/50 (50%)		39/50 (78%)		41/50 (82%)	
Overall Incidence	Total	158/249 (63.45%)	Mean 63.49%	SD 10.7%	Total	202/250 (80.8%)	Mean 80.8%	SD 1.79%	
.....									
#All Organs:									
Malignant Tumors									
		15/50 (30%)	14/49 (29%)	11/50 (22%)		14/50 (28%)	13/50 (26%)	15/50 (30%)	
			9/50 (18%)	9/50 (18%)		14/50 (28%)		10/50 (20%)	
Overall Incidence	Total	58/249 (23.29%)	Mean 23.31%	SD 5.71%	Total	66/250 (26.4%)	Mean 26.4%	SD 3.85%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		36/50 (72%)	41/49 (84%)	42/50 (84%)		44/50 (88%)	44/50 (88%)	47/50 (94%)	
			37/50 (74%)	30/50 (60%)		47/50 (94%)		46/50 (92%)	
Overall Incidence	Total	186/249 (74.7%)	Mean 74.73%	SD 9.89%	Total	228/250 (91.2%)	Mean 91.2%	SD 3.03%	
.....									
#All Organs:									
Hemangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		1/50 (2%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	
.....									
#All Organs:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#All Organs:									
Hemangiosarcoma or Hemangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		1/50 (2%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.79%	
.....									
#All Organs:									
Histiocytic Sarcoma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#All Organs:									
Leukemia: Granulocytic									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#All Organs:									
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			3/50 (6%)	1/50 (2%)		1/50 (2%)		2/50 (4%)	
Overall Incidence	Total	4/249 (1.61%)	Mean 1.6%	SD 2.61%	Total	4/250 (1.6%)	Mean 1.6%	SD 1.67%	
.....									
#All Organs:									
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
			1/50 (2%)	2/50 (4%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	4/249 (1.61%)	Mean 1.61%	SD 1.68%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#All Organs:									
Malignant Schwannoma									
		6/50 (12%)	3/49 (6%)	1/50 (2%)		3/50 (6%)	2/50 (4%)	0/50 (0%)	
			1/50 (2%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	11/249 (4.42%)	Mean 4.42%	SD 4.79%	Total	5/250 (2%)	Mean 2%	SD 2.83%	
.....									
#All Organs:									
Mesothelioma: Benign, Malignant, NOS									
		1/50 (2%)	1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			1/50 (2%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	5/249 (2.01%)	Mean 2.01%	SD 0.02%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#All Organs:									
Mesothelioma: Malignant									
		1/50 (2%)	1/49 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			1/50 (2%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	5/249 (2.01%)	Mean 2.01%	SD 0.02%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#All Organs:									
Osteosarcoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#All Organs:									
Osteosarcoma or Osteoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
*Adrenal Cortex:									
Adenoma									
		0/50 (0%)	0/49 (0%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	3/50 (6%)	
			0/50 (0%)	0/50 (0%)		2/50 (4%)		0/50 (0%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.2%	SD 2.68%	Total	5/250 (2%)	Mean 2%	SD 2.83%	
.....									
*Adrenal Cortex:									
Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Ganglioneuroma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Benign									
		5/50 (10%)	7/49 (14%)	9/50 (18%)		0/50 (0%)	0/50 (0%)	3/50 (6%)	
			8/50 (16%)	6/50 (12%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	35/249 (14.06%)	Mean 14.06%	SD 3.16%	Total	4/250 (1.6%)	Mean 1.6%	SD 2.61%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Complex									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		0/50 (0%)	1/49 (2%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	4/249 (1.61%)	Mean 1.61%	SD 2.61%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.79%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		6/50 (12%)	8/49 (16%)	12/50 (24%)		0/50 (0%)	0/50 (0%)	5/50 (10%)	
			8/50 (16%)	6/50 (12%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	40/249 (16.06%)	Mean 16.07%	SD 4.9%	Total	6/250 (2.4%)	Mean 2.4%	SD 4.34%	
.....									
#Bone:									
Osteosarcoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Bone:									
Osteosarcoma or Osteoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Brain:									
Glioma Malignant									
		0/50 (0%)	2/49 (4%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
			1/50 (2%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.22%	SD 1.82%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
*Brain:									
Granular Cell Tumor Benign									
		0/50 (0%)	0/49 (0%)	2/50 (4%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
			2/50 (4%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	5/249 (2.01%)	Mean 2%	SD 2%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	
.....									
*Brain:									
Granular Cell Tumor Malignant									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
Meningioma Benign									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Brain:									
Meningioma Malignant									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Brain:									
Meningioma: Benign, Malignant, NOS									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		0/50 (0%)	2/49 (4%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
			1/50 (2%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.22%	SD 1.82%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Brain:									
Schwannoma Malignant									
		0/50 (0%)	0/49 (0%)	0/50 (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	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Clitoral/Preputial Gland:									
Adenoma									
		0/50 (0%)	1/49 (2%)	0/49 (0%)		0/50 (0%)	0/49 (0%)	0/48 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/46 (0%)	
Overall Incidence	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Clitoral/Preputial Gland:									
Carcinoma									
		0/50 (0%)	0/49 (0%)	1/49 (2%)		0/50 (0%)	0/49 (0%)	0/48 (0%)	
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/46 (0%)	
Overall Incidence	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	Total	1/243 (0.41%)	Mean 0.4%	SD 0.89%	
.....									
*Clitoral/Preputial Gland:									
Carcinoma or Adenoma									
		0/50 (0%)	1/49 (2%)	1/49 (2%)		0/50 (0%)	0/49 (0%)	0/48 (0%)	
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/46 (0%)	
Overall Incidence	Total	2/248 (0.81%)	Mean 0.82%	SD 1.12%	Total	1/243 (0.41%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Clitoral/Preputial Gland:									
Squamous Cell Carcinoma									
		0/50 (0%)	1/49 (2%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/48 (0%)	
			0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		0/46 (0%)	
Overall Incidence	Total	2/248 (0.81%)	Mean 0.81%	SD 1.11%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		1/50 (2%)	0/49 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/48 (0%)	
			0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		0/46 (0%)	
Overall Incidence	Total	1/248 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Epididymis:									
Sarcoma									
		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%)	0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Eye:									
Leiomyoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Heart:									
Schwannoma Malignant									
		2/50 (4%)	2/49 (4%)	1/50 (2%)	0/49 (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	5/249 (2.01%)	Mean 2.02%	SD 2.02%	Total	0/248 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Intestine Large: Cecum:									
Liposarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		1/50 (2%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Intestine Large: Colon/Rectum:									
Granular Cell Tumor Benign									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Large: Colon/Rectum:									
Leiomyoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		2/50 (4%)	0/49 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			1/50 (2%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	4/249 (1.61%)	Mean 1.6%	SD 1.67%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Intestine Small: Site Unspecified:									
Carcinoma									
		2/50 (4%)	0/49 (0%)	1/50 (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	4/249 (1.61%)	Mean 1.6%	SD 1.67%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		2/50 (4%)	0/49 (0%)	1/50 (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	4/249 (1.61%)	Mean 1.6%	SD 1.67%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Islets, Pancreatic:									
Adenoma									
		2/50 (4%)	4/49 (8%)	3/50 (6%)		3/49 (6%)	1/50 (2%)	0/50 (0%)	
			5/50 (10%)	4/50 (8%)		1/50 (2%)		0/49 (0%)	
Overall Incidence	Total	18/249 (7.23%)	Mean 7.23%	SD 2.3%	Total	5/248 (2.02%)	Mean 2.02%	SD 2.5%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/248 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Islets, Pancreatic:									
 Carcinoma or Adenoma									
		2/50 (4%)	4/49 (8%)	3/50 (6%)		3/49 (6%)	1/50 (2%)	1/50 (2%)	
			5/50 (10%)	4/50 (8%)		1/50 (2%)		0/49 (0%)	
Overall Incidence	Total	18/249 (7.23%)	Mean 7.23%	SD 2.3%	Total	6/248 (2.42%)	Mean 2.42%	SD 2.24%	
.....									
*Kidney: Pelvis and Transitional Epithelium:									
 Papilloma									
		0/50 (0%)	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	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule:									
 Adenoma									
		1/50 (2%)	1/49 (2%)	0/50 (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	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule:									
 Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule:									
 Carcinoma or Adenoma									
		1/50 (2%)	1/49 (2%)	0/50 (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	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%	

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule: Hemangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Lipoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Liposarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			1/50 (2%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/249 (0.8%)	Mean 0.8%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Nephroblastoma									
		0/50 (0%)	0/49 (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%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Oncocytoma Benign									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Lacrimal Gland:									
Carcinoma									
		0/50 (0%)	0/49 (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%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Liver:									
Cholangiocarcinoma									
		0/50 (0%)	0/49 (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%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/249 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Cholangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		1/50 (2%)		1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	
.....									
*Liver:									
Hemangioma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Liver:									
Hepatocellular Adenoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	1/50 (2%)		2/50 (4%)		1/50 (2%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	4/249 (1.61%)	Mean 1.61%	SD 1.68%	
.....									
*Liver:									
Hepatocellular Carcinoma									
		1/50 (2%)	1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		1/50 (2%)	1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		1/50 (2%)	1/49 (2%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	1/50 (2%)		3/50 (6%)		1/50 (2%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	5/249 (2.01%)	Mean 2.01%	SD 2.45%	
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		1/50 (2%)	1/49 (2%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	1/50 (2%)		3/50 (6%)		1/50 (2%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	5/249 (2.01%)	Mean 2.01%	SD 2.45%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Lung:									
Alveolar/Bronchiolar Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		0/50 (0%)	0/49 (0%)	1/50 (2%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
			0/50 (0%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.8%	SD 1.1%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma									
		0/50 (0%)	1/49 (2%)	1/50 (2%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
			0/50 (0%)	1/50 (2%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Sarcoma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
			1/50 (2%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/248 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Lymph Node, Mesenteric:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Mammary Gland:									
Adenolipoma									
		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%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Mammary Gland:									
Adenoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	
.....									
#Mammary Gland:									
Carcinoma									
		1/50 (2%)	0/49 (0%)	2/50 (4%)		1/50 (2%)	4/50 (8%)	7/50 (14%)	
			0/50 (0%)	0/50 (0%)		3/50 (6%)		1/50 (2%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.2%	SD 1.79%	Total	16/250 (6.4%)	Mean 6.4%	SD 4.98%	
.....									
#Mammary Gland:									
Carcinoma or Adenoma									
		1/50 (2%)	0/49 (0%)	2/50 (4%)		2/50 (4%)	4/50 (8%)	7/50 (14%)	
			0/50 (0%)	0/50 (0%)		4/50 (8%)		1/50 (2%)	
Overall Incidence	Total	3/249 (1.2%)	Mean 1.2%	SD 1.79%	Total	18/250 (7.2%)	Mean 7.2%	SD 4.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
#Mammary Gland:									
Fibroadenoma									
		2/50 (4%)	1/49 (2%)	2/50 (4%)	28/50 (56%)	33/50 (66%)	32/50 (64%)		
			2/50 (4%)	2/50 (4%)	21/50 (42%)		29/50 (58%)		
Overall Incidence	Total	9/249 (3.61%)	Mean 3.61%	SD 0.88%	Total	143/250 (57.2%)	Mean 57.2%	SD 9.44%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma or Adenoma									
		2/50 (4%)	1/49 (2%)	2/50 (4%)	29/50 (58%)	33/50 (66%)	32/50 (64%)		
			2/50 (4%)	2/50 (4%)	22/50 (44%)		29/50 (58%)		
Overall Incidence	Total	9/249 (3.61%)	Mean 3.61%	SD 0.88%	Total	145/250 (58%)	Mean 58%	SD 8.6%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma, Carcinoma, or Adenoma									
		3/50 (6%)	1/49 (2%)	3/50 (6%)	30/50 (60%)	35/50 (70%)	36/50 (72%)		
			2/50 (4%)	2/50 (4%)	25/50 (50%)		30/50 (60%)		
Overall Incidence	Total	11/249 (4.42%)	Mean 4.41%	SD 1.66%	Total	156/250 (62.4%)	Mean 62.4%	SD 8.88%	
.....									
#Mammary Gland:									
Myoepithelioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
			0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)		
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Nose:									
Carcinoma									
		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%)		0/49 (0%)		
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma									
		0/50 (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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Oral Mucosa: Squamous Cell Carcinoma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (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%)
Overall Incidence	Total				Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Ovary: Granulosa Cell Tumor Benign									
						1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
						1/50 (2%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total				Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male	Female
*Ovary:		
Granulosa Cell Tumor Malignant		
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/250 (0.4%)	Mean 0.4% SD 0.89%
.....		
*Ovary:		
Granulosa Cell Tumor: Benign, Malignant, NOS		
	2/50 (4%)	0/50 (0%)
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 3/250 (1.2%)	Mean 1.2% SD 1.79%
.....		
*Ovary:		
Granulosa-Theca Tumor Benign		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	1/50 (2%)
Overall Incidence	Total 1/250 (0.4%)	Mean 0.4% SD 0.89%
.....		
*Ovary:		
Granulosa-Theca Tumor Malignant		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/250 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Luteoma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/250 (0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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				Male					Female	
*Ovary:										
Schwannoma Malignant										
				0/50 (0%)					1/50 (2%)	
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	1/250 (0.4%)	Mean			0.4%	
						SD			0.89%	
.....										
*Ovary:										
Sertoli Cell Tumor Benign										
				0/50 (0%)					0/50 (0%)	
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/250 (0%)	Mean			0%	
						SD			0%	
.....										
*Ovary:										
Thecoma Benign										
				0/50 (0%)					0/50 (0%)	
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/250 (0%)	Mean			0%	
						SD			0%	
.....										
*Ovary:										
Tubulostromal Carcinoma										
				0/50 (0%)					0/50 (0%)	
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/250 (0%)	Mean			0%	
						SD			0%	
.....										
*Pancreas:										
Adenoma										
		10/50 (20%)	4/49 (8%)	5/50 (10%)			0/49 (0%)	0/50 (0%)	0/50 (0%)	
			3/50 (6%)	9/50 (18%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	31/249 (12.45%)	Mean	12.43%	SD	6.2%	Total	0/248 (0%)	Mean	0%
									SD	0%

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#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Pancreas:									
Carcinoma									
		0/50 (0%)	2/49 (4%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/49 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.82%	SD 1.83%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Pancreas:									
Carcinoma or Adenoma									
		10/50 (20%)	6/49 (12%)	5/50 (10%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			3/50 (6%)	9/50 (18%)		0/50 (0%)		0/49 (0%)	
Overall Incidence	Total	33/249 (13.25%)	Mean 13.25%	SD 5.75%	Total	0/248 (0%)	Mean 0%	SD 0%	
.....									
*Parathyroid Gland:									
Adenoma									
		0/42 (0%)	0/48 (0%)	0/49 (0%)		0/42 (0%)	0/45 (0%)	1/41 (2%)	
			0/41 (0%)	0/49 (0%)		0/47 (0%)		0/44 (0%)	
Overall Incidence	Total	0/229 (0%)	Mean 0%	SD 0%	Total	1/219 (0.46%)	Mean 0.49%	SD 1.09%	
.....									
#Peripheral Nerve:									
Paraganglioma									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Peripheral Nerve:									
Schwannoma Malignant									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	

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#: Denominator is number of animals necropsied

Version: Dec2020
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 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female			
#Peripheral Nerve:									
Schwannoma: Benign, Malignant, NOS									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		4/50 (8%)	15/48 (31%)	14/50 (28%)		15/49 (31%)	12/50 (24%)	19/50 (38%)	
			5/50 (10%)	7/50 (14%)		22/50 (44%)		11/50 (22%)	
Overall Incidence	Total	45/248 (18.15%)	Mean 18.25%	SD 10.67%	Total	79/249 (31.73%)	Mean 31.72%	SD 9.29%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		0/50 (0%)	0/48 (0%)	0/50 (0%)		1/49 (2%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma or Adenoma									
		4/50 (8%)	15/48 (31%)	14/50 (28%)		16/49 (33%)	13/50 (26%)	19/50 (38%)	
			5/50 (10%)	7/50 (14%)		22/50 (44%)		11/50 (22%)	
Overall Incidence	Total	45/248 (18.15%)	Mean 18.25%	SD 10.67%	Total	81/249 (32.53%)	Mean 32.53%	SD 8.87%	
.....									
*Pituitary Gland: Pars Intermedia:									
Adenoma									
		0/50 (0%)	0/48 (0%)	2/50 (4%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/248 (0.81%)	Mean 0.8%	SD 1.79%	Total	0/249 (0%)	Mean 0%	SD 0%	

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
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 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Pituitary Gland: Pars Intermedia:									
Carcinoma or Adenoma									
		0/50 (0%)	0/48 (0%)	2/50 (4%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/248 (0.81%)	Mean 0.8%	SD 1.79%	Total	0/249 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Nervosa:									
Schwannoma Malignant									
		0/50 (0%)	0/48 (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	0/248 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%	
.....									
*Prostate:									
Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)					
			3/50 (6%)	0/50 (0%)					
Overall Incidence	Total	4/249 (1.61%)	Mean 1.61%	SD 2.61%					
.....									
*Prostate:									
Carcinoma or Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)					
			3/50 (6%)	0/50 (0%)					
Overall Incidence	Total	4/249 (1.61%)	Mean 1.61%	SD 2.61%					
.....									
*Salivary Glands:									
Schwannoma Malignant									
		2/50 (4%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/49 (0%)	0/49 (0%)	
			0/49 (0%)	0/50 (0%)		0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	2/248 (0.81%)	Mean 0.8%	SD 1.79%	Total	0/246 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)					
			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%					
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50 (0%)	0/49 (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%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skeletal Muscle:									
Sarcoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (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	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Skin:									
Basal Cell Adenoma or Basosquamous Tumor Benign									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			1/50 (2%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/249 (1.2%)	Mean 1.21%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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	Male				Female			
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		4/50 (8%)	9/49 (18%)	4/50 (8%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
			6/50 (12%)	3/50 (6%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	26/249 (10.44%)	Mean 10.47%	SD 4.92%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
.....								
#Skin:								
Fibroma								
		3/50 (6%)	3/49 (6%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
			1/50 (2%)	4/50 (8%)		0/50 (0%)		1/50 (2%)
Overall Incidence	Total	14/249 (5.62%)	Mean 5.62%	SD 2.2%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma								
		3/50 (6%)	4/49 (8%)	3/50 (6%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
			2/50 (4%)	4/50 (8%)		1/50 (2%)		2/50 (4%)
Overall Incidence	Total	16/249 (6.43%)	Mean 6.43%	SD 1.71%	Total	5/250 (2%)	Mean 2%	SD 1.41%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma								
		3/50 (6%)	4/49 (8%)	3/50 (6%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
			2/50 (4%)	4/50 (8%)		1/50 (2%)		2/50 (4%)
Overall Incidence	Total	16/249 (6.43%)	Mean 6.43%	SD 1.71%	Total	5/250 (2%)	Mean 2%	SD 1.41%
.....								
#Skin:								
Fibrosarcoma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
			1/50 (2%)	0/50 (0%)		0/50 (0%)		1/50 (2%)
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%

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

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 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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		Male				Female			
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
			1/50 (2%)	0/50 (0%)	1/50 (2%)			1/50 (2%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.81%	SD 1.11%	Total	4/250 (1.6%)	Mean 1.6%	SD 0.89%	
.....									
#Skin:									
Hemangioma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Hemangiopericytoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Keratoacanthoma									
		2/50 (4%)	8/49 (16%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			5/50 (10%)	2/50 (4%)	0/50 (0%)			0/50 (0%)	0/50 (0%)
Overall Incidence	Total	19/249 (7.63%)	Mean 7.67%	SD 5.49%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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Toxicology Data Management System
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		Male				Female			
#Skin:									
Lipoma									
		0/50 (0%)	0/49 (0%)	2/50 (4%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.8%	SD 1.79%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Skin:									
Liposarcoma									
		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%)		0/50 (0%)	
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Malignant Fibrous Histiocytoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Skin:									
Neurofibrosarcoma or Schwannoma (malignant or NOS)									
		2/50 (4%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.8%	SD 1.79%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	
.....									
#Skin:									
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)									
		2/50 (4%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	2/249 (0.8%)	Mean 0.8%	SD 1.79%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
#Skin:									
Osteosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Pilomatrixoma									
		0/50 (0%)	3/49 (6%)	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	3/249 (1.2%)	Mean 1.22%	SD 2.74%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Sarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Skin:									
Schwannoma Malignant									
		2/50 (4%)	0/49 (0%)	0/50 (0%)		1/50 (2%)	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	2/249 (0.8%)	Mean 0.8%	SD 1.79%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	
.....									
#Skin:									
Squamous Cell Carcinoma									
		1/50 (2%)	0/49 (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%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female								
#Skin:														
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma														
		1/50	(2%)	0/49	(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%)	
Overall Incidence	Total	1/249 (0.4%)		Mean	0.4%	SD	0.89%	Total	1/250 (0.4%)		Mean	0.4%	SD	0.89%
.....														
#Skin:														
Squamous Cell Papilloma														
		0/50	(0%)	0/49	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
				0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	3/249 (1.2%)		Mean	1.2%	SD	1.79%	Total	0/250 (0%)		Mean	0%	SD	0%
.....														
#Skin:														
Squamous Cell Papilloma or Papilloma														
		0/50	(0%)	0/49	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
				0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	3/249 (1.2%)		Mean	1.2%	SD	1.79%	Total	0/250 (0%)		Mean	0%	SD	0%
.....														
#Skin:														
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma														
		3/50	(6%)	8/49	(16%)	4/50	(8%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
				5/50	(10%)	3/50	(6%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	23/249 (9.24%)		Mean	9.27%	SD	4.28%	Total	1/250 (0.4%)		Mean	0.4%	SD	0.89%
.....														
#Skin:														
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma														
		2/50	(4%)	8/49	(16%)	4/50	(8%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
				5/50	(10%)	3/50	(6%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	22/249 (8.84%)		Mean	8.87%	SD	4.73%	Total	0/250 (0%)		Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
#Skin:									
Trichoepithelioma									
		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%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin: Sebaceous Gland:									
Adenoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Skin: Sebaceous Gland:									
Carcinoma or Adenoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Spinal Cord:									
Astrocytoma Malignant									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		1/50 (2%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Spleen:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (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%)		0/49 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
#Stomach, Forestomach:									
Sarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Testis:									
Adenoma									
		3/49 (6%)	2/49 (4%)	1/50 (2%)					
			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	6/248 (2.42%)	Mean 2.44%	SD 2.66%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
*Thymus:									
Thymoma Benign									
		0/47 (0%)	0/48 (0%)	0/46 (0%)		0/46 (0%)	0/49 (0%)	0/49 (0%)	
			0/48 (0%)	0/49 (0%)		0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/238 (0%)	Mean 0%	SD 0%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Thymus:									
Thymoma Malignant									
		0/47 (0%)	0/48 (0%)	0/46 (0%)		0/46 (0%)	0/49 (0%)	0/49 (0%)	
			0/48 (0%)	0/49 (0%)		0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/238 (0%)	Mean 0%	SD 0%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/47 (0%)	0/48 (0%)	0/46 (0%)		0/46 (0%)	0/49 (0%)	0/49 (0%)	
			0/48 (0%)	0/49 (0%)		0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/238 (0%)	Mean 0%	SD 0%	Total	0/243 (0%)	Mean 0%	SD 0%	
.....									
*Thyroid Gland: C-Cell:									
Adenoma									
		10/50 (20%)	8/49 (16%)	7/50 (14%)		8/49 (16%)	12/50 (24%)	5/50 (10%)	
			11/49 (22%)	9/50 (18%)		9/50 (18%)		10/50 (20%)	
Overall Incidence	Total	45/248 (18.15%)	Mean 18.16%	SD 3.26%	Total	44/249 (17.67%)	Mean 17.67%	SD 5.15%	
.....									
*Thyroid Gland: C-Cell:									
Carcinoma									
		1/50 (2%)	1/49 (2%)	1/50 (2%)		0/49 (0%)	1/50 (2%)	1/50 (2%)	
			0/49 (0%)	0/50 (0%)		1/50 (2%)		2/50 (4%)	
Overall Incidence	Total	3/248 (1.21%)	Mean 1.21%	SD 1.1%	Total	5/249 (2.01%)	Mean 2%	SD 1.41%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
*Thyroid Gland: C-Cell: Carcinoma or Adenoma									
		10/50 (20%)	8/49 (16%)	8/50 (16%)		8/49 (16%)	13/50 (26%)	6/50 (12%)	
			11/49 (22%)	9/50 (18%)		9/50 (18%)		12/50 (24%)	
Overall Incidence	Total	46/248 (18.55%)	Mean 18.56%	SD 2.7%	Total	48/249 (19.28%)	Mean 19.27%	SD 5.72%	
.....									
*Thyroid Gland: Follicular Cell: Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/49 (0%)	0/50 (0%)		0/50 (0%)		1/50 (2%)	
Overall Incidence	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/49 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
			0/49 (0%)	0/50 (0%)		0/50 (0%)		1/50 (2%)	
Overall Incidence	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	
.....									
#Tissue NOS: Schwannoma Malignant									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Tongue:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Tongue:									
Squamous Cell Carcinoma or Papilloma Squamous									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
#Tooth:									
Odontoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
			0/50 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%	
.....									
*Urinary Bladder:									
Leiomyosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
			0/49 (0%)	0/50 (0%)		0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%	
.....									
#Uterus:									
Adenocarcinoma									
						3/50 (6%)		5/50 (10%)	
						1/50 (2%)		3/50 (6%)	
Overall Incidence	Total				Total	12/200 (6%)	Mean 6%	SD 3.27%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male	Female
#Uterus:		
Adenocarcinoma or Adenoma		
	3/50 (6%)	5/50 (10%)
	2/50 (4%)	3/50 (6%)
Overall Incidence	Total 13/200 (6.5%)	Mean 6.5% SD 2.52%
.....		
#Uterus:		
Adenoma		
	0/50 (0%)	0/50 (0%)
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%
.....		
#Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
	3/50 (6%)	5/50 (10%)
	2/50 (4%)	3/50 (6%)
Overall Incidence	Total 13/200 (6.5%)	Mean 6.5% SD 2.52%
.....		
#Uterus:		
Deciduoma Benign		
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%
.....		
#Uterus:		
Granular Cell Tumor Benign		
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male	Female
#Uterus:		
Hemangioma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	1/50 (2%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%
.....		
#Uterus:		
Papilloma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/200 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Polyp Stromal		
	8/50 (16%)	8/50 (16%)
	16/50 (32%)	5/50 (10%)
Overall Incidence	Total 37/200 (18.5%)	Mean 18.5% SD 9.43%
.....		
#Uterus:		
Sarcoma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/200 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Sarcoma Stromal		
	0/50 (0%)	0/50 (0%)
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male	Female
#Uterus:		
Sarcoma Stromal or Polyp Stromal		
	8/50 (16%)	8/50 (16%)
	16/50 (32%)	5/50 (10%)
Overall Incidence	Total 37/200 (18.5%)	Mean 18.5% SD 9.43%
.....		
#Uterus:		
Schwannoma Malignant		
	1/50 (2%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/200 (0.5%)	Mean 0.5% SD 1%
.....		
#Uterus:		
Sq Cell Carcinoma or Papilloma Squamous		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/200 (0%)	Mean 0% SD 0%
.....		
#Uterus:		
Squamous Cell Carcinoma		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/200 (0%)	Mean 0% SD 0%
.....		
#Vagina:		
Granular Cell Tumor Benign		
	0/50 (0%)	0/50 (0%)
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/250 (0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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					Male		Female				
#Vagina:											
Polyp											
					0/50	(0%)	0/50	(0%)	0/50	(0%)	
					0/50	(0%)			0/50	(0%)	
Overall Incidence					Total	0/250	(0%)	Mean	0%	SD	0%
.....											
#Vagina:											
Sarcoma											
					0/50	(0%)	0/50	(0%)	0/50	(0%)	
					0/50	(0%)			1/50	(2%)	
Overall Incidence					Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....											
#Vagina:											
Schwannoma Malignant											
					1/50	(2%)	0/50	(0%)	0/50	(0%)	
					0/50	(0%)			0/50	(0%)	
Overall Incidence					Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....											
#Zymbal's Gland:											
Adenoma											
		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	0/249 (0%)		Mean	0%	SD	0%	Total	0/250 (0%)	Mean	0%
.....											
#Zymbal's Gland:											
Carcinoma											
		1/50	(2%)	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	2/249 (0.8%)		Mean	0.81%	SD	1.11%	Total	0/250 (0%)	Mean	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female					
#Zymbal's Gland:											
Carcinoma or Adenoma											
		1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
				0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	2/249 (0.8%)		Mean	0.81%	SD	1.11%	Total	0/250 (0%)	Mean	0%
										SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

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

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Report Date: 12/30/2020

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 Columbus Laboratory	050303803	01/30/12	729	50(2)	12(621)	610.8	Sodium Tungstate Dihydrate
Female							
Battelle Columbus Laboratory	050303803	01/31/12	730	50(5)	30(667)	393.3	Sodium Tungstate Dihydrate

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#All Organs:								
Benign Tumors								
		29/50 (58%)			39/50 (78%)			
Overall Incidence	Total	29/50 (58%)	Mean 58%	SD 0%	Total	39/50 (78%)	Mean 78%	SD 0%
.....								
#All Organs:								
Malignant Tumors								
		14/50 (28%)			17/50 (34%)			
Overall Incidence	Total	14/50 (28%)	Mean 28%	SD 0%	Total	17/50 (34%)	Mean 34%	SD 0%
.....								
#All Organs:								
Malignant and Benign Tumors								
		36/50 (72%)			47/50 (94%)			
Overall Incidence	Total	36/50 (72%)	Mean 72%	SD 0%	Total	47/50 (94%)	Mean 94%	SD 0%
.....								
#All Organs:								
Hemangioma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Hemangiosarcoma								
		1/50 (2%)			0/50 (0%)			
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#All Organs:								
Hemangiosarcoma or Hemangioma								
		1/50 (2%)			0/50 (0%)			
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
#All Organs:							
Histiocytic Sarcoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Leukemia: Granulocytic							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type							
		1/50	(2%)		2/50	(4%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	2/50 (4%)
							Mean 4%
							SD 0%
.....							
#All Organs:							
Malignant Schwannoma							
		1/50	(2%)		2/50	(4%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	2/50 (4%)
							Mean 4%
							SD 0%
.....							
#All Organs:							
Mesothelioma: Benign, Malignant, NOS							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Mesothelioma: Malignant							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
#All Organs:							
Osteosarcoma							
		0/50	(0%)		1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							
#All Organs:							
Osteosarcoma or Osteoma							
		0/50	(0%)		1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50 (2%)
.....							
*Adrenal Cortex:							
Adenoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
*Adrenal Cortex:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
*Adrenal Medulla:							
Ganglioneuroma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
.....							

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Adrenal Medulla:								
Pheochromocytoma Benign								
		10/50 (20%)			1/50 (2%)			
Overall Incidence	Total	10/50 (20%)	Mean 20%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma Complex								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma Malignant								
		2/50 (4%)			1/50 (2%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma: Benign, Complex, Malignant, NOS								
		12/50 (24%)			2/50 (4%)			
Overall Incidence	Total	12/50 (24%)	Mean 24%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
.....								
#Bone:								
Osteosarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Bone:								
Osteosarcoma or Osteoma								
		0/50 (0%)			0/50 (0%)			
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Brain:							
 Glioma Malignant							
		2/50	(4%)		0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Brain:							
 Granular Cell Tumor Benign							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Brain:							
 Granular Cell Tumor Malignant							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Brain:							
 Meningioma Benign							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Brain:							
 Meningioma Malignant							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
						Mean 0%	SD 0%
.....							
*Brain:							
 Meningioma: Benign, Malignant, NOS							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female				
*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		2/50	(4%)			0/50	(0%)		
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
*Brain:									
Schwannoma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Carcinoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Carcinoma or Adenoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Carcinoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Clitoral/Preputial Gland:								
Squamous Cell Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Epididymis:								
Sarcoma								
		0/50	(0%)					
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%			
.....								
#Eye:								
Leiomyoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Heart:								
Schwannoma Malignant								
		0/50	(0%)			2/50	(4%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50	(4%)
.....								
#Intestine Large: Cecum:								
Liposarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Intestine Large: Colon/Rectum:								
Granular Cell Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Intestine Large: Colon/Rectum:									
Leiomyoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Islets, Pancreatic:							
Adenoma							
		2/50	(4%)		1/50	(2%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
*Islets, Pancreatic:							
Carcinoma							
		1/50	(2%)		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
*Islets, Pancreatic:							
Carcinoma or Adenoma							
		3/50	(6%)		2/50	(4%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	2/50 (4%)
							Mean 4%
							SD 0%
*Kidney: Pelvis and Transitional Epithelium:							
Papilloma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
*Kidney: Renal Tubule:							
Adenoma							
		2/50	(4%)		0/50	(0%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
*Kidney: Renal Tubule:							
Carcinoma							
		0/50	(0%)		0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Kidney: Renal Tubule: Carcinoma or Adenoma							
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Hemangioma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Lipoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Liposarcoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Nephroblastoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Oncocytoma Benign							
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male			Female		
*Kidney: Renal Tubule:							
Polyp Adenomatous							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Lacrimal Gland:							
Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Cholangiocarcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Cholangioma							
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Hemangioma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Liver:							
Hepatocellular Adenoma							
Overall Incidence	Total	1/50 (2%)	Mean 2%	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male			Female		
*Liver:							
Hepatocellular Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatoblastoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatocellular Adenoma							
		1/50	(2%)		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma							
		1/50	(2%)		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	1/50 (2%)
							Mean 2%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Adenoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50 (0%)
							Mean 0%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Carcinoma							
		1/50	(2%)		0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
*Lung:								
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma								
		2/50 (4%)			0/50 (0%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Sarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Squamous Cell Carcinoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenolipoma								
		0/50 (0%)			0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/50 (0%)			3/50 (6%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	3/50 (6%)	Mean 6%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
#Mammary Gland:									
Carcinoma									
		0/50	(0%)			2/50	(4%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	2/50	(4%)	Mean 4%
									SD 0%
.....									
#Mammary Gland:									
Carcinoma or Adenoma									
		0/50	(0%)			5/50	(10%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	5/50	(10%)	Mean 10%
									SD 0%
.....									
#Mammary Gland:									
Fibroadenoma									
		0/50	(0%)			30/50	(60%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	30/50	(60%)	Mean 60%
									SD 0%
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma or Adenoma									
		0/50	(0%)			32/50	(64%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	32/50	(64%)	Mean 64%
									SD 0%
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma, Carcinoma, or Adenoma									
		0/50	(0%)			34/50	(68%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	34/50	(68%)	Mean 68%
									SD 0%
.....									
#Mammary Gland:									
Myoepithelioma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
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 Length of Study: CHRONIC

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

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	Male				Female			
*Nose:								
Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Oral Mucosa:								
Squamous Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Ovary:								
Cystadenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Granulosa Cell Tumor Benign								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								

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Version: Dec2020
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male		Female	
*Ovary:				
Granulosa Cell Tumor Malignant				
			1/50 (2%)	
Overall Incidence		Total	1/50 (2%)	Mean 2% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
			1/50 (2%)	
Overall Incidence		Total	1/50 (2%)	Mean 2% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Benign				
			0/50 (0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Malignant				
			1/50 (2%)	
Overall Incidence		Total	1/50 (2%)	Mean 2% SD 0%
.....				
*Ovary:				
Luteoma				
			0/50 (0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				
*Ovary:				
Schwannoma Malignant				
			0/50 (0%)	
Overall Incidence		Total	0/50 (0%)	Mean 0% SD 0%
.....				

*: Denominator is number of animals with tissues examined microscopically

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Version: Dec2020
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 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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Male					Female			
*Ovary:								
Sertoli Cell Tumor Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Thecoma Benign								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Tubulostromal Carcinoma								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Adenoma								
		14/50	(28%)					
Overall Incidence	Total	14/50 (28%)	Mean 28%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma								
		1/50	(2%)					
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma or Adenoma								
		14/50	(28%)					
Overall Incidence	Total	14/50 (28%)	Mean 28%	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: Dec2020
 Contract/Lab: All Laboratories
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 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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	Male				Female			
*Parathyroid Gland:								
Adenoma								
		0/43	(0%)			0/46	(0%)	
Overall Incidence	Total	0/43	(0%)	Mean 0%	SD 0%	Total	0/46	(0%)
								Mean 0%
								SD 0%
.....								
#Peripheral Nerve:								
Paranglioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Peripheral Nerve:								
Schwannoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
#Peripheral Nerve:								
Schwannoma: Benign, Malignant, NOS								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
								Mean 0%
								SD 0%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Adenoma								
		8/50	(16%)			16/50	(32%)	
Overall Incidence	Total	8/50	(16%)	Mean 16%	SD 0%	Total	16/50	(32%)
								Mean 32%
								SD 0%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Carcinoma								
		1/50	(2%)			1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	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: Dec2020
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male			Female		
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma							
		9/50 (18%)			17/50 (34%)		
Overall Incidence	Total	9/50 (18%)	Mean 18%	SD 0%	Total	17/50 (34%)	Mean 34% SD 0%
.....							
*Pituitary Gland: Pars Intermedia: Adenoma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Nervosa: Schwannoma Malignant							
		1/50 (2%)			0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Prostate: Adenoma							
		0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%			
.....							
*Prostate: Carcinoma or Adenoma							
		0/50 (0%)					
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

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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		1/50	(2%)						
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Fibroma								
		3/50	(6%)			1/50	(2%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma								
		3/50	(6%)			3/50	(6%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	3/50	(6%)
								Mean 6%
								SD 0%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma								
		3/50	(6%)			2/50	(4%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	2/50	(4%)
								Mean 4%
								SD 0%
.....								
#Skin:								
Fibrosarcoma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
#Skin:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
								Mean 2%
								SD 0%
.....								
#Skin:								
Hemangioma								
		0/50	(0%)			0/50	(0%)	
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Skin:									
Hemangiopericytoma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
#Skin:									
Hemangiosarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Keratoacanthoma									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Lipoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Liposarcoma									
		0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Malignant Fibrous Histiocytoma									
		0/50	(0%)			0/50	(0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Osteosarcoma								
		0/50	(0%)			1/50	(2%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)
.....								
#Skin:								
Pilomatrixoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin:								
Schwannoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male				Female			
#Skin:								
Trichoepithelioma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Skin: Sebaceous Gland:								
Carcinoma or Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Spinal Cord:								
Astrocytoma Malignant								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
*Spleen:								
Hemangiosarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Stomach, Forestomach:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
#Stomach, Forestomach:							
Squamous Cell Carcinoma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
#Stomach, Forestomach:							
Squamous Cell Carcinoma or Papilloma Squamous							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
#Stomach, Forestomach:							
Squamous Cell Papilloma							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
*Testis:							
Adenoma							
		1/50	(2%)				
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%		
.....							
*Thymus:							
Thymoma Benign							
		0/48	(0%)		0/47	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/47 (0%)
.....							
*Thymus:							
Thymoma Malignant							
		0/48	(0%)		0/47	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/47 (0%)
.....							
*: Denominator is number of animals with tissues examined microscopically							
#: Denominator is number of animals necropsied							

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female		
*Thymus:							
Thymoma: Benign, Malignant, NOS							
		0/48 (0%)			0/47 (0%)		
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/47 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Adenoma							
		4/50 (8%)			5/50 (10%)		
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	5/50 (10%)	Mean 10% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma							
		0/50 (0%)			2/50 (4%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4% SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma or Adenoma							
		4/50 (8%)			7/50 (14%)		
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	7/50 (14%)	Mean 14% SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Adenoma							
		0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Carcinoma							
		0/50 (0%)			0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tissue NOS: Schwannoma Malignant							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
#Tooth: Odontoma							
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....							
*Urinary Bladder: Leiomyosarcoma							
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
#Uterus:				
Adenocarcinoma				
		3/50 (6%)		
Overall Incidence	Total	3/50 (6%)	Mean 6%	SD 0%
.....				
#Uterus:				
Adenocarcinoma or Adenoma				
		3/50 (6%)		
Overall Incidence	Total	3/50 (6%)	Mean 6%	SD 0%
.....				
#Uterus:				
Adenoma				
		0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma				
		5/50 (10%)		
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
.....				
#Uterus:				
Deciduoma Benign				
		0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Granular Cell Tumor Benign				
		0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
#Uterus: Hemangioma				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Uterus: Papilloma				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Uterus: Polyp Stromal				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%
#Uterus: Sarcoma				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
#Uterus: Sarcoma Stromal				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%
#Uterus: Sarcoma Stromal or Polyp Stromal				
Overall Incidence	Total	6/50 (12%)	Mean 12%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male		Female	
#Uterus:				
Schwannoma Malignant				
		0/50 (0%)		
Overall Incidence		Total 0/50 (0%)	Mean 0%	SD 0%
.....				
#Uterus:				
Sq Cell Carcinoma or Papilloma Squamous				
		2/50 (4%)		
Overall Incidence		Total 2/50 (4%)	Mean 4%	SD 0%
.....				
#Uterus:				
Squamous Cell Carcinoma				
		2/50 (4%)		
Overall Incidence		Total 2/50 (4%)	Mean 4%	SD 0%
.....				
#Vagina:				
Granular Cell Tumor Benign				
		0/50 (0%)		
Overall Incidence		Total 0/50 (0%)	Mean 0%	SD 0%
.....				
#Vagina:				
Polyp				
		1/50 (2%)		
Overall Incidence		Total 1/50 (2%)	Mean 2%	SD 0%
.....				
#Vagina:				
Sarcoma				
		0/50 (0%)		
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: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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Male					Female			
#Vagina:								
Schwannoma Malignant								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Adenoma								
					0/50	(0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma								
					1/50	(2%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma or Adenoma								
					1/50	(2%)		
Overall Incidence	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: Dec2020
Contract/Lab: All Laboratories
Species: RATS
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Length of Study: CHRONIC

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

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Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	050005803	07/03/12	730	50(2)	15(656)	628.4	Black Cohosh
Battelle Columbus Laboratory	052032305	05/07/12	729	50(2)	29(669)	597.1	Resveratrol
Female							
Battelle Columbus Laboratory	050005803	07/02/12	729	50(5)	28(679)	426.6	Black Cohosh
Battelle Columbus Laboratory	052032305	05/08/12	730	50(5)	34(690)	394.3	Resveratrol

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male			Female		
#All Organs:							
Benign Tumors							
		30/50 (60%)	33/50 (66%)		44/50 (88%)	43/50 (86%)	
Overall Incidence	Total	63/100 (63%)	Mean 63%	SD 4.24%	Total	87/100 (87%)	Mean 87% SD 1.41%
.....							
#All Organs:							
Malignant Tumors							
		10/50 (20%)	13/50 (26%)		7/50 (14%)	10/50 (20%)	
Overall Incidence	Total	23/100 (23%)	Mean 23%	SD 4.24%	Total	17/100 (17%)	Mean 17% SD 4.24%
.....							
#All Organs:							
Malignant and Benign Tumors							
		33/50 (66%)	39/50 (78%)		46/50 (92%)	45/50 (90%)	
Overall Incidence	Total	72/100 (72%)	Mean 72%	SD 8.49%	Total	91/100 (91%)	Mean 91% SD 1.41%
.....							
#All Organs:							
Hemangioma							
		0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1% SD 1.41%
.....							
#All Organs:							
Hemangiosarcoma							
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1% SD 1.41%
.....							

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female					
#All Organs:											
Histiocytic Sarcoma											
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#All Organs:											
Leukemia: Granulocytic											
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#All Organs:											
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#All Organs:											
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type											
		0/50	(0%)	1/50	(2%)			0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#All Organs:											
Malignant Schwannoma											
		0/50	(0%)	0/50	(0%)			1/50	(2%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	2/100	(2%)	Mean 2%	SD 0%	
.....											
#All Organs:											
Mesothelioma: Benign, Malignant, NOS											
		2/50	(4%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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 Vehicle: METHYLCELLULOSE

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		Male				Female			
#All Organs:									
Mesothelioma: Malignant									
		2/50 (4%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	3/100 (3%)	Mean 3%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#All Organs:									
Osteosarcoma									
		0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#All Organs:									
Osteosarcoma or Osteoma									
		0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Cortex:									
Adenoma									
		0/50 (0%)	0/50 (0%)		2/50 (4%)	3/50 (6%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	5/100 (5%)	Mean 5%	SD 1.41%	
.....									
*Adrenal Cortex:									
Carcinoma									
		0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Ganglioneuroma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Benign									
		14/50 (28%)	4/50 (8%)			3/50 (6%)	3/50 (6%)		
Overall Incidence	Total	18/100 (18%)	Mean 18%	SD 14.14%	Total	6/100 (6%)	Mean 6%	SD 0%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Complex									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		14/50 (28%)	5/50 (10%)			3/50 (6%)	3/50 (6%)		
Overall Incidence	Total	19/100 (19%)	Mean 19%	SD 12.73%	Total	6/100 (6%)	Mean 6%	SD 0%	
.....									
#Bone:									
Osteosarcoma									
		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Bone:									
Osteosarcoma or Osteoma									
		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female					
*Brain:											
 Glioma Malignant											
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Granular Cell Tumor Benign											
		3/50	(6%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 4.24%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Granular Cell Tumor Malignant											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Meningioma Benign											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Meningioma Malignant											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Meningioma: Benign, Malignant, NOS											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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	Male					Female					
*Brain:											
Oligodendroglioma, Glioma, or Astrocytoma											
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
Schwannoma Malignant											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Clitoral/Preputial Gland:											
Adenoma											
		0/50	(0%)	0/50	(0%)			0/49	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/97	(0%)	Mean 0%	SD 0%	
.....											
*Clitoral/Preputial Gland:											
Carcinoma											
		0/50	(0%)	0/50	(0%)			0/49	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/97	(0%)	Mean 0%	SD 0%	
.....											
*Clitoral/Preputial Gland:											
Carcinoma or Adenoma											
		0/50	(0%)	0/50	(0%)			0/49	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/97	(0%)	Mean 0%	SD 0%	
.....											
*Clitoral/Preputial Gland:											
Squamous Cell Carcinoma											
		0/50	(0%)	0/50	(0%)			1/49	(2%)	1/48	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	2/97	(2.06%)	Mean 2.06%	SD 0.03%	

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 #: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female					
*Clitoral/Preputial Gland:											
Squamous Cell Papilloma											
		0/50	(0%)	1/50	(2%)			0/49	(0%)	0/48	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/97	(0%)	Mean 0%	SD 0%	
.....											
*Epididymis:											
Sarcoma											
		0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%						
.....											
#Eye:											
Leiomyoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Heart:											
Schwannoma Malignant											
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#Intestine Large: Cecum:											
Liposarcoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Large: Colon/Rectum:											
Granular Cell Tumor Benign											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
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		Male				Female					
#Intestine Large: Colon/Rectum:											
Leiomyoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Jejunum:											
Carcinoma											
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Jejunum:											
Leiomyosarcoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Site Unspecified:											
Carcinoma											
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Site Unspecified:											
Carcinoma or Adenoma											
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Site Unspecified:											
Leiomyosarcoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL GAVAGE
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		Male				Female			
*Islets, Pancreatic:									
Adenoma									
		4/50 (8%)	2/50 (4%)		1/50 (2%)	2/50 (4%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 2.83%	Total	3/100 (3%)	Mean 3%	SD 1.41%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		0/50 (0%)	3/50 (6%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	3/100 (3%)	Mean 3%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Islets, Pancreatic:									
Carcinoma or Adenoma									
		4/50 (8%)	5/50 (10%)		1/50 (2%)	2/50 (4%)			
Overall Incidence	Total	9/100 (9%)	Mean 9%	SD 1.41%	Total	3/100 (3%)	Mean 3%	SD 1.41%	
.....									
*Kidney: Pelvis and Transitional Epithelium:									
Papilloma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule:									
Adenoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule:									
Carcinoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL GAVAGE
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		Male				Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Hemangioma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%	
.....									
*Kidney: Renal Tubule: Lipoma									
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Liposarcoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Nephroblastoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Kidney: Renal Tubule: Oncocytoma Benign									
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
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 Strain: Harlan Sprague-Dawley
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 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL GAVAGE
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		Male				Female			
*Kidney: Renal Tubule:									
 Polyp Adenomatous									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Lacrimal Gland:									
 Carcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Cholangiocarcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Cholangioma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Hemangioma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Liver:									
 Hepatocellular Adenoma									
		0/50	(0%)	0/50	(0%)	2/50	(4%)	2/50	(4%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	4/100	(4%)	Mean 4%	SD 0%

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 #: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female					
*Liver:											
Hepatocellular Carcinoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Liver:											
Hepatocellular Carcinoma or Hepatoblastoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Liver:											
Hepatocellular Carcinoma or Hepatocellular Adenoma											
		0/50	(0%)	0/50	(0%)			2/50	(4%)	2/50	(4%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	4/100	(4%)	Mean 4%	SD 0%	
.....											
*Liver:											
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma											
		0/50	(0%)	0/50	(0%)			2/50	(4%)	2/50	(4%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	4/100	(4%)	Mean 4%	SD 0%	
.....											
*Lung:											
Alveolar/Bronchiolar Adenoma											
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
*Lung:											
Alveolar/Bronchiolar Carcinoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male					Female				
*Lung:										
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma										
		0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%
.....										
*Lung:										
Sarcoma										
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%
.....										
*Lung:										
Squamous Cell Carcinoma										
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%
.....										
#Lymph Node, Mesenteric:										
Hemangiosarcoma										
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%
.....										
#Mammary Gland:										
Adenolipoma										
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%
.....										
#Mammary Gland:										
Adenoma										
		0/50	(0%)	0/50	(0%)		1/50	(2%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	2/100	(2%)	Mean 2%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female					
#Mammary Gland:											
Carcinoma											
		0/50	(0%)	0/50	(0%)			3/50	(6%)	2/50	(4%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	5/100	(5%)	Mean 5%	SD 1.41%	
.....											
#Mammary Gland:											
Carcinoma or Adenoma											
		0/50	(0%)	0/50	(0%)			4/50	(8%)	3/50	(6%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	7/100	(7%)	Mean 7%	SD 1.41%	
.....											
#Mammary Gland:											
Fibroadenoma											
		3/50	(6%)	0/50	(0%)			29/50	(58%)	28/50	(56%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 4.24%	Total	57/100	(57%)	Mean 57%	SD 1.41%	
.....											
#Mammary Gland:											
Fibroma, Fibroadenoma or Adenoma											
		3/50	(6%)	0/50	(0%)			29/50	(58%)	28/50	(56%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 4.24%	Total	57/100	(57%)	Mean 57%	SD 1.41%	
.....											
#Mammary Gland:											
Fibroma, Fibroadenoma, Carcinoma, or Adenoma											
		3/50	(6%)	0/50	(0%)			30/50	(60%)	29/50	(58%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 4.24%	Total	59/100	(59%)	Mean 59%	SD 1.41%	
.....											
#Mammary Gland:											
Myoepithelioma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
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 Strain: Harlan Sprague-Dawley
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		Male				Female			
*Nose:									
Carcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Squamous Cell Carcinoma									
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma									
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Oral Mucosa:									
Squamous Cell Carcinoma									
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Ovary:									
Cystadenoma									
						0/50	(0%)	0/50	(0%)
Overall Incidence						0/100	(0%)	Mean 0%	SD 0%
.....									
*Ovary:									
Granulosa Cell Tumor Benign									
						0/50	(0%)	0/50	(0%)
Overall Incidence						0/100	(0%)	Mean 0%	SD 0%
.....									

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 #: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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	Male		Female	
*Ovary:				
Granulosa Cell Tumor Malignant				
		0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....				
*Ovary:				
Granulosa-Theca Tumor Benign				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*Ovary:				
Luteoma				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*Ovary:				
Schwannoma Malignant				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				

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Male					Female											
*Ovary:																
Sertoli Cell Tumor Benign																
					0/50	(0%)	0/50	(0%)								
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD	0%					
.....																
*Ovary:																
Thecoma Benign																
					0/50	(0%)	0/50	(0%)								
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD	0%					
.....																
*Ovary:																
Tubulostromal Carcinoma																
					0/50	(0%)	0/50	(0%)								
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD	0%					
.....																
*Pancreas:																
Adenoma																
		6/50	(12%)	8/50	(16%)											
Overall Incidence	Total	14/100	(14%)	Mean	14%	SD	2.83%	Total	0/50	(0%)	0/50	(0%)	Mean	0%	SD	0%
.....																
*Pancreas:																
Carcinoma																
		1/50	(2%)	0/50	(0%)											
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/50	(0%)	0/50	(0%)	Mean	0%	SD	0%
.....																
*Pancreas:																
Carcinoma or Adenoma																
		7/50	(14%)	8/50	(16%)											
Overall Incidence	Total	15/100	(15%)	Mean	15%	SD	1.41%	Total	0/50	(0%)	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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		Male			Female			
*Parathyroid Gland:								
Adenoma								
		0/49 (0%)	1/49 (2%)		0/46 (0%)	0/48 (0%)		
Overall Incidence	Total	1/98 (1.02%)	Mean 1.02%	SD 1.44%	Total	0/94 (0%)	Mean 0%	SD 0%
.....								
#Peripheral Nerve:								
Paranglioma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Peripheral Nerve:								
Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Peripheral Nerve:								
Schwannoma: Benign, Malignant, NOS								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Adenoma								
		12/50 (24%)	10/50 (20%)		20/50 (40%)	21/50 (42%)		
Overall Incidence	Total	22/100 (22%)	Mean 22%	SD 2.83%	Total	41/100 (41%)	Mean 41%	SD 1.41%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Carcinoma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%

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

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 Species: RATS
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		Male			Female			
*Pituitary Gland: Pars Distalis or Unspecified Site:								
 Carcinoma or Adenoma								
		12/50 (24%)	10/50 (20%)		20/50 (40%)	21/50 (42%)		
Overall Incidence	Total	22/100 (22%)	Mean 22%	SD 2.83%	Total	41/100 (41%)	Mean 41%	SD 1.41%
.....								
*Pituitary Gland: Pars Intermedia:								
 Adenoma								
		0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
*Pituitary Gland: Pars Intermedia:								
 Carcinoma or Adenoma								
		0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
*Pituitary Gland: Pars Nervosa:								
 Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Prostate:								
 Adenoma								
		0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%				
.....								
*Prostate:								
 Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%				

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	1/100	(1%)	Mean 1% SD 1.41%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#Skin:								
Basal Cell Carcinoma								
		0/50 (0%)	1/50 (2%)		0/50 (0%)	2/50 (4%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	2/100 (2%)	Mean 2%	SD 2.83%
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/50 (0%)	1/50 (2%)		0/50 (0%)	2/50 (4%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	2/100 (2%)	Mean 2%	SD 2.83%
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		0/50 (0%)	1/50 (2%)		0/50 (0%)	3/50 (6%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	3/100 (3%)	Mean 3%	SD 4.24%
.....								
#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%)		0/50 (0%)	3/50 (6%)		
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 5.66%	Total	3/100 (3%)	Mean 3%	SD 4.24%

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Version: Dec2020
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		Male				Female			
#Skin:									
Fibroma									
		4/50 (8%)	2/50 (4%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma									
		6/50 (12%)	3/50 (6%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	9/100 (9%)	Mean 9%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		6/50 (12%)	3/50 (6%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	9/100 (9%)	Mean 9%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Fibrosarcoma									
		1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		2/50 (4%)	1/50 (2%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	3/100 (3%)	Mean 3%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Hemangioma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	

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 #: Denominator is number of animals necropsied

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		Male				Female					
#Skin:											
Hemangiopericytoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Hemangiosarcoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Keratoacanthoma											
		1/50	(2%)	2/50	(4%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/100	(3%)	Mean 3%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Lipoma											
		2/50	(4%)	0/50	(0%)			1/50	(2%)	1/50	(2%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	2/100	(2%)	Mean 2%	SD 0%	
.....											
#Skin:											
Liposarcoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Malignant Fibrous Histiocytoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	

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 #: Denominator is number of animals necropsied

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	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (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%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Osteosarcoma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Pilomatrixoma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Sarcoma								
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#Skin:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma									
		0/50 (0%)	1/50 (2%)		0/50 (0%)	2/50 (4%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	2/100 (2%)	Mean 2%	SD 2.83%	
.....									
#Skin:									
Squamous Cell Papilloma									
		0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Squamous Cell Papilloma or Papilloma									
		0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma									
		1/50 (2%)	4/50 (8%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma									
		1/50 (2%)	4/50 (8%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%	

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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		Male				Female			
#Skin:									
Trichoepithelioma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Skin: Sebaceous Gland:									
Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Skin: Sebaceous Gland:									
Carcinoma or Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Spinal Cord:									
Astrocytoma Malignant									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Spleen:									
Hemangiosarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Sarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(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%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Testis:									
Adenoma									
		1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%				
.....									
*Thymus:									
Thymoma Benign									
		0/46	(0%)	0/48	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	0/94	(0%)	Mean 0%	SD 0%	Total	0/99	(0%)	Mean 0% SD 0%
.....									
*Thymus:									
Thymoma Malignant									
		0/46	(0%)	0/48	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	0/94	(0%)	Mean 0%	SD 0%	Total	0/99	(0%)	Mean 0% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male			Female			
*Thymus:								
Thymoma: Benign, Malignant, NOS								
		0/46 (0%)	0/48 (0%)		0/49 (0%)	0/50 (0%)		
Overall Incidence	Total	0/94 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
.....								
*Thyroid Gland: C-Cell:								
Adenoma								
		11/50 (22%)	8/50 (16%)		9/50 (18%)	16/50 (32%)		
Overall Incidence	Total	19/100 (19%)	Mean 19%	SD 4.24%	Total	25/100 (25%)	Mean 25%	SD 9.9%
.....								
*Thyroid Gland: C-Cell:								
Carcinoma								
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Thyroid Gland: C-Cell:								
Carcinoma or Adenoma								
		11/50 (22%)	8/50 (16%)		9/50 (18%)	16/50 (32%)		
Overall Incidence	Total	19/100 (19%)	Mean 19%	SD 4.24%	Total	25/100 (25%)	Mean 25%	SD 9.9%
.....								
*Thyroid Gland: Follicular Cell:								
Adenoma								
		0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Thyroid Gland: Follicular Cell:								
Carcinoma								
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

		Male				Female			
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/50 (0%)	2/50 (4%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Tissue NOS: Schwannoma Malignant									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Tongue: Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Tooth: Odontoma									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Urinary Bladder: Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	

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 #: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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	Male	Female
#Uterus:		
Adenocarcinoma		
Overall Incidence	Total 2/50 (4%) 4/100 (4%)	2/50 (4%) Mean 4% SD 0%
#Uterus:		
Adenocarcinoma or Adenoma		
Overall Incidence	Total 2/50 (4%) 6/100 (6%)	4/50 (8%) Mean 6% SD 2.83%
#Uterus:		
Adenoma		
Overall Incidence	Total 0/50 (0%) 2/100 (2%)	2/50 (4%) Mean 2% SD 2.83%
#Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
Overall Incidence	Total 4/50 (8%) 8/100 (8%)	4/50 (8%) Mean 8% SD 0%
#Uterus:		
Deciduoma Benign		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus:		
Granular Cell Tumor Benign		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

Page: 212
 Report Date: 12/30/2020

	Male	Female
#Uterus: Hemangioma		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus: Papilloma		
Overall Incidence	Total 1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1% SD 1.41%
#Uterus: Polyp Stromal		
Overall Incidence	Total 9/50 (18%) 11/100 (11%)	2/50 (4%) Mean 11% SD 9.9%
#Uterus: Sarcoma		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus: Sarcoma Stromal		
Overall Incidence	Total 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0% SD 0%
#Uterus: Sarcoma Stromal or Polyp Stromal		
Overall Incidence	Total 9/50 (18%) 11/100 (11%)	2/50 (4%) Mean 11% SD 9.9%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

Page: 213
 Report Date: 12/30/2020

	Male			Female	
#Uterus:					
Schwannoma Malignant					
		0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/100 (0%)	Mean	0%
				SD	0%
.....					
#Uterus:					
Sq Cell Carcinoma or Papilloma Squamous					
		2/50	(4%)	0/50	(0%)
Overall Incidence		Total	2/100 (2%)	Mean	2%
				SD	2.83%
.....					
#Uterus:					
Squamous Cell Carcinoma					
		1/50	(2%)	0/50	(0%)
Overall Incidence		Total	1/100 (1%)	Mean	1%
				SD	1.41%
.....					
#Vagina:					
Granular Cell Tumor Benign					
		0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/100 (0%)	Mean	0%
				SD	0%
.....					
#Vagina:					
Polyp					
		0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/100 (0%)	Mean	0%
				SD	0%
.....					
#Vagina:					
Sarcoma					
		0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/100 (0%)	Mean	0%
				SD	0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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

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 Report Date: 12/30/2020

Male					Female					
#Vagina:										
Schwannoma Malignant										
					0/50	(0%)			1/50	(2%)
Overall Incidence					Total	1/100	(1%)	Mean	1%	SD 1.41%
.....										
#Zymbal's Gland:										
Adenoma										
		1/50	(2%)			0/50	(0%)			
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%			
					Total	0/50	(0%)	0/50	(0%)	
							Mean	0%	SD 0%	
.....										
#Zymbal's Gland:										
Carcinoma										
		1/50	(2%)			0/50	(0%)			
Overall Incidence	Total	2/100	(2%)	Mean	2%	SD	0%			
					Total	0/50	(0%)	0/50	(0%)	
							Mean	0%	SD 0%	
.....										
#Zymbal's Gland:										
Carcinoma or Adenoma										
		2/50	(4%)			0/50	(0%)			
Overall Incidence	Total	3/100	(3%)	Mean	3%	SD	1.41%			
					Total	0/50	(0%)	0/50	(0%)	
							Mean	0%	SD 0%	

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

Version: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: Whole Body Exposure
Vehicle: AIR

Page: 215
Report Date: 12/30/2020

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							
I. I. T. Research Institute	052010556	09/16/12	730	90(1)	25(642)	658.1	Radiofrequency Radiation
Female							
I. I. T. Research Institute	052010556	09/16/12	737	90(1)	48(659)	462.4	Radiofrequency Radiation

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

Page: 216
 Report Date: 12/30/2020

		Male			Female		
#All Organs:							
Benign Tumors							
		49/90 (54%)			82/90 (91%)		
Overall Incidence	Total	49/90 (54.44%)	Mean 54.44%	SD 0%	Total	82/90 (91.11%)	Mean 91.11% SD 0%
.....							
#All Organs:							
Malignant Tumors							
		24/90 (27%)			37/90 (41%)		
Overall Incidence	Total	24/90 (26.67%)	Mean 26.67%	SD 0%	Total	37/90 (41.11%)	Mean 41.11% SD 0%
.....							
#All Organs:							
Malignant and Benign Tumors							
		57/90 (63%)			89/90 (99%)		
Overall Incidence	Total	57/90 (63.33%)	Mean 63.33%	SD 0%	Total	89/90 (98.89%)	Mean 98.89% SD 0%
.....							
#All Organs:							
Hemangioma							
		0/90 (0%)			0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma							
		3/90 (3%)			3/90 (3%)		
Overall Incidence	Total	3/90 (3.33%)	Mean 3.33%	SD 0%	Total	3/90 (3.33%)	Mean 3.33% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		3/90 (3%)			3/90 (3%)		
Overall Incidence	Total	3/90 (3.33%)	Mean 3.33%	SD 0%	Total	3/90 (3.33%)	Mean 3.33% SD 0%
.....							

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male				Female			
#All Organs:								
Histiocytic Sarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#All Organs:								
Leukemia: Granulocytic								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#All Organs:								
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#All Organs:								
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type								
		2/90	(2%)			5/90	(6%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	5/90	(5.56%)
.....								
#All Organs:								
Malignant Schwannoma								
		3/90	(3%)			4/90	(4%)	
Overall Incidence	Total	3/90	(3.33%)	Mean 3.33%	SD 0%	Total	4/90	(4.44%)
.....								
#All Organs:								
Mesothelioma: Benign, Malignant, NOS								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

Page: 218
 Report Date: 12/30/2020

	Male				Female			
#All Organs:								
Mesothelioma: Malignant								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
							Mean 0%	SD 0%
.....								
#All Organs:								
Osteosarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
							Mean 0%	SD 0%
.....								
#All Organs:								
Osteosarcoma or Osteoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
							Mean 0%	SD 0%
.....								
*Adrenal Cortex:								
Adenoma								
		1/90	(1%)			1/90	(1%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	1/90	(1.11%)
							Mean 1.11%	SD 0%
.....								
*Adrenal Cortex:								
Carcinoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)
							Mean 1.11%	SD 0%
.....								
*Adrenal Medulla:								
Ganglioneuroma								
		0/88	(0%)			0/86	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/86	(0%)
							Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male				Female			
*Adrenal Medulla:								
Pheochromocytoma Benign								
		10/88 (11%)			1/86 (1%)			
Overall Incidence	Total	10/88 (11.36%)	Mean 11.36%	SD 0%	Total	1/86 (1.16%)	Mean 1.16%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma Complex								
		1/88 (1%)			0/86 (0%)			
Overall Incidence	Total	1/88 (1.14%)	Mean 1.14%	SD 0%	Total	0/86 (0%)	Mean 0%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma Malignant								
		1/88 (1%)			0/86 (0%)			
Overall Incidence	Total	1/88 (1.14%)	Mean 1.14%	SD 0%	Total	0/86 (0%)	Mean 0%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma: Benign, Complex, Malignant, NOS								
		11/88 (13%)			1/86 (1%)			
Overall Incidence	Total	11/88 (12.5%)	Mean 12.5%	SD 0%	Total	1/86 (1.16%)	Mean 1.16%	SD 0%
.....								
#Bone:								
Osteosarcoma								
		0/90 (0%)			0/90 (0%)			
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
#Bone:								
Osteosarcoma or Osteoma								
		0/90 (0%)			0/90 (0%)			
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

		Male			Female		
*Brain:							
 Glioma Malignant							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Brain:							
 Granular Cell Tumor Benign							
		1/90	(1%)		1/90	(1%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	1/90 (1.11%)
							Mean 1.11%
							SD 0%
.....							
*Brain:							
 Granular Cell Tumor Malignant							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Brain:							
 Meningioma Benign							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Brain:							
 Meningioma Malignant							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Brain:							
 Meningioma: Benign, Malignant, NOS							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
*Brain:								
Oligodendroglioma, Glioma, or Astrocytoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
							Mean 0%	SD 0%
.....								
*Brain:								
Schwannoma Malignant								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Adenoma								
		0/88	(0%)			0/87	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/87	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma								
		0/88	(0%)			0/87	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/87	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Carcinoma or Adenoma								
		0/88	(0%)			0/87	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/87	(0%)
							Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Squamous Cell Carcinoma								
		0/88	(0%)			0/87	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/87	(0%)
							Mean 0%	SD 0%
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
*Clitoral/Preputial Gland:								
Squamous Cell Papilloma								
		0/88	(0%)			0/87	(0%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	0/87	(0%)
								Mean 0%
								SD 0%
.....								
*Epididymis:								
Sarcoma								
		0/90	(0%)					
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%			
.....								
#Eye:								
Leiomyoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
*Heart:								
Schwannoma Malignant								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
#Intestine Large: Cecum:								
Liposarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
#Intestine Large: Colon/Rectum:								
Granular Cell Tumor Benign								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)
								Mean 1.11%
								SD 0%
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male				Female			
#Intestine Large: Colon/Rectum:								
Leiomyoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Intestine Small: Jejunum:								
Carcinoma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Intestine Small: Jejunum:								
Leiomyosarcoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)
.....								
#Intestine Small: Site Unspecified:								
Carcinoma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Intestine Small: Site Unspecified:								
Carcinoma or Adenoma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Intestine Small: Site Unspecified:								
Leiomyosarcoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
*Islets, Pancreatic:								
Adenoma								
		5/90	(6%)			5/90	(6%)	
Overall Incidence	Total	5/90	(5.56%)	Mean 5.56%	SD 0%	Total	5/90	(5.56%)
								Mean 5.56%
								SD 0%
.....								
*Islets, Pancreatic:								
Carcinoma								
		8/90	(9%)			2/90	(2%)	
Overall Incidence	Total	8/90	(8.89%)	Mean 8.89%	SD 0%	Total	2/90	(2.22%)
								Mean 2.22%
								SD 0%
.....								
*Islets, Pancreatic:								
Carcinoma or Adenoma								
		13/90	(14%)			7/90	(8%)	
Overall Incidence	Total	13/90	(14.44%)	Mean 14.44%	SD 0%	Total	7/90	(7.78%)
								Mean 7.78%
								SD 0%
.....								
*Kidney: Pelvis and Transitional Epithelium:								
Papilloma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
*Kidney: Renal Tubule:								
Adenoma								
		3/90	(3%)			1/90	(1%)	
Overall Incidence	Total	3/90	(3.33%)	Mean 3.33%	SD 0%	Total	1/90	(1.11%)
								Mean 1.11%
								SD 0%
.....								
*Kidney: Renal Tubule:								
Carcinoma								
		1/90	(1%)			1/90	(1%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	1/90	(1.11%)
								Mean 1.11%
								SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male				Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma								
Overall Incidence	Total	3/90 (3%)	Mean 3.33%	SD 0%	Total	2/90 (2%)	Mean 2.22%	SD 0%
.....								
*Kidney: Renal Tubule: Hemangioma								
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule: Lipoma								
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule: Liposarcoma								
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule: Nephroblastoma								
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule: Oncocytoma Benign								
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

		Male				Female			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Lacrimal Gland:									
Carcinoma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Cholangiocarcinoma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Cholangioma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hemangioma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
*Liver:									
Hepatocellular Adenoma									
		0/90	(0%)			7/90	(8%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	7/90	(7.78%)	Mean 7.78% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

		Male			Female		
*Liver:							
Hepatocellular Carcinoma							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatoblastoma							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma or Hepatocellular Adenoma							
		0/90	(0%)		7/90	(8%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	7/90 (7.78%)
							Mean 7.78%
							SD 0%
.....							
*Liver:							
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma							
		0/90	(0%)		7/90	(8%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	7/90 (7.78%)
							Mean 7.78%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Adenoma							
		1/90	(1%)		0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
*Lung:							
Alveolar/Bronchiolar Carcinoma							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male				Female			
*Lung:								
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma								
		1/90 (1%)				0/90 (0%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Sarcoma								
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Lung:								
Squamous Cell Carcinoma								
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenolipoma								
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/90 (0%)				8/90 (9%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	8/90 (8.89%)	Mean 8.89%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

		Male			Female		
#Mammary Gland:							
Carcinoma							
		0/90	(0%)		10/90	(11%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	Total	10/90 (11.11%)	Mean 11.11%
				SD 0%			SD 0%
.....							
#Mammary Gland:							
Carcinoma or Adenoma							
		0/90	(0%)		16/90	(18%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	Total	16/90 (17.78%)	Mean 17.78%
				SD 0%			SD 0%
.....							
#Mammary Gland:							
Fibroadenoma							
		2/90	(2%)		63/90	(70%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	Total	63/90 (70%)	Mean 70%
				SD 0%			SD 0%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma or Adenoma							
		2/90	(2%)		64/90	(71%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	Total	64/90 (71.11%)	Mean 71.11%
				SD 0%			SD 0%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma, Carcinoma, or Adenoma							
		2/90	(2%)		66/90	(73%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	Total	66/90 (73.33%)	Mean 73.33%
				SD 0%			SD 0%
.....							
#Mammary Gland:							
Myoepithelioma							
		0/90	(0%)		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	Total	0/90 (0%)	Mean 0%
				SD 0%			SD 0%
.....							

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
*Nose:								
Carcinoma								
		0/89	(0%)			0/90	(0%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma								
		0/90	(0%)			2/90	(2%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	2/90 (2.22%)	Mean 2.22% SD 0%
.....								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/90	(0%)			2/90	(2%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	2/90 (2.22%)	Mean 2.22% SD 0%
.....								
#Oral Mucosa:								
Squamous Cell Carcinoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....								
*Ovary:								
Cystadenoma								
						1/90	(1%)	
Overall Incidence						Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....								
*Ovary:								
Granulosa Cell Tumor Benign								
						1/90	(1%)	
Overall Incidence						Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....								

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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 Report Date: 12/30/2020

	Male	Female
*Ovary:		
Granulosa Cell Tumor Malignant		
Overall Incidence	Total 2/90 (2.22%)	Mean 2.22% SD 0%
.....		
*Ovary:		
Granulosa Cell Tumor: Benign, Malignant, NOS		
Overall Incidence	Total 3/90 (3.33%)	Mean 3.33% SD 0%
.....		
*Ovary:		
Granulosa-Theca Tumor Benign		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Granulosa-Theca Tumor Malignant		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Luteoma		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Schwannoma Malignant		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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Male					Female			
*Ovary:								
Sertoli Cell Tumor Benign								
					1/90	(1%)		
Overall Incidence					Total	1/90 (1.11%)	Mean 1.11%	SD 0%
.....								
*Ovary:								
Thecoma Benign								
					0/90	(0%)		
Overall Incidence					Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Tubulostromal Carcinoma								
					0/90	(0%)		
Overall Incidence					Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Adenoma								
		18/90	(20%)					
Overall Incidence	Total	18/90 (20%)	Mean 20%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma								
		1/90	(1%)					
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*Pancreas:								
Carcinoma or Adenoma								
		18/90	(20%)					
Overall Incidence	Total	18/90 (20%)	Mean 20%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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		Male			Female		
*Parathyroid Gland:							
Adenoma							
		1/83 (1%)			0/87 (0%)		
Overall Incidence	Total	1/83 (1.2%)	Mean 1.2%	SD 0%	Total	0/87 (0%)	Mean 0% SD 0%
.....							
#Peripheral Nerve:							
Paranglioma							
		0/90 (0%)			0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#Peripheral Nerve:							
Schwannoma Malignant							
		0/90 (0%)			0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#Peripheral Nerve:							
Schwannoma: Benign, Malignant, NOS							
		0/90 (0%)			0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Adenoma							
		17/89 (19%)			43/90 (48%)		
Overall Incidence	Total	17/89 (19.1%)	Mean 19.1%	SD 0%	Total	43/90 (47.78%)	Mean 47.78% SD 0%
.....							
*Pituitary Gland: Pars Distalis or Unspecified Site:							
Carcinoma							
		0/89 (0%)			1/90 (1%)		
Overall Incidence	Total	0/89 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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		Male			Female		
*Pituitary Gland: Pars Distalis or Unspecified Site:							
 Carcinoma or Adenoma							
		17/89	(19%)		44/90	(49%)	
Overall Incidence	Total	17/89	(19.1%)	Mean 19.1%	SD 0%	Total	44/90 (48.89%)
						Mean 48.89%	SD 0%
*Pituitary Gland: Pars Intermedia:							
 Adenoma							
		0/89	(0%)		0/90	(0%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
						Mean 0%	SD 0%
*Pituitary Gland: Pars Intermedia:							
 Carcinoma or Adenoma							
		0/89	(0%)		0/90	(0%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
						Mean 0%	SD 0%
*Pituitary Gland: Pars Nervosa:							
 Schwannoma Malignant							
		0/89	(0%)		0/90	(0%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)
						Mean 0%	SD 0%
*Prostate:							
 Adenoma							
		2/90	(2%)				
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%		
*Prostate:							
 Carcinoma or Adenoma							
		2/90	(2%)				
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%		

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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		Male				Female			
*Salivary Glands:									
Schwannoma Malignant									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/90	(0%)						
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%				
.....									
#Skeletal Muscle:									
Hemangioma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Liposarcoma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Skeletal Muscle:									
Sarcoma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		1/90	(1%)			0/90	(0%)		
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Skin:								
Basal Cell Adenoma or Basosquamous Tumor Benign								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Skin:								
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Skin:								
Basal Cell Carcinoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Skin:								
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Skin:								
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Skin:								
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma								
		8/90	(9%)			0/90	(0%)	
Overall Incidence	Total	8/90	(8.89%)	Mean 8.89%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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		Male			Female				
#Skin:									
Fibroma									
		2/90	(2%)		2/90	(2%)			
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	2/90	(2.22%)	Mean 2.22%	SD 0%
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma									
		5/90	(6%)		5/90	(6%)			
Overall Incidence	Total	5/90	(5.56%)	Mean 5.56%	SD 0%	5/90	(5.56%)	Mean 5.56%	SD 0%
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		5/90	(6%)		5/90	(6%)			
Overall Incidence	Total	5/90	(5.56%)	Mean 5.56%	SD 0%	5/90	(5.56%)	Mean 5.56%	SD 0%
.....									
#Skin:									
Fibrosarcoma									
		1/90	(1%)		0/90	(0%)			
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	0/90	(0%)	Mean 0%	SD 0%
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		3/90	(3%)		3/90	(3%)			
Overall Incidence	Total	3/90	(3.33%)	Mean 3.33%	SD 0%	3/90	(3.33%)	Mean 3.33%	SD 0%
.....									
#Skin:									
Hemangioma									
		0/90	(0%)		0/90	(0%)			
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	0/90	(0%)	Mean 0%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Skin:								
Hemangiopericytoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Hemangiosarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Keratoacanthoma								
		5/90	(6%)			0/90	(0%)	
Overall Incidence	Total	5/90	(5.56%)	Mean 5.56%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Lipoma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Liposarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Malignant Fibrous Histiocytoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Osteosarcoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Pilomatrixoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Sarcoma								
		2/90	(2%)			2/90	(2%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	2/90	(2.22%)
.....								
#Skin:								
Schwannoma Malignant								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
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	Male				Female			
#Skin:								
Squamous Cell Carcinoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Squamous Cell Papilloma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Squamous Cell Papilloma or Papilloma								
		2/90	(2%)			0/90	(0%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma								
		7/90	(8%)			0/90	(0%)	
Overall Incidence	Total	7/90	(7.78%)	Mean 7.78%	SD 0%	Total	0/90	(0%)
.....								
#Skin:								
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma								
		7/90	(8%)			0/90	(0%)	
Overall Incidence	Total	7/90	(7.78%)	Mean 7.78%	SD 0%	Total	0/90	(0%)

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Skin:								
Trichoepithelioma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
#Skin: Sebaceous Gland:								
Adenoma								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
#Skin: Sebaceous Gland:								
Carcinoma or Adenoma								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
#Spinal Cord:								
Astrocytoma Malignant								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
								Mean 0%
								SD 0%
.....								
*Spleen:								
Hemangiosarcoma								
		3/90	(3%)			1/90	(1%)	
Overall Incidence	Total	3/90	(3.33%)	Mean 3.33%	SD 0%	Total	1/90	(1.11%)
								Mean 1.11%
								SD 0%
.....								
#Stomach, Forestomach:								
Sarcoma								
		0/90	(0%)			1/90	(1%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	1/90	(1.11%)
								Mean 1.11%
								SD 0%

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Stomach, Forestomach:								
Squamous Cell Carcinoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Carcinoma or Papilloma Squamous								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Papilloma								
		1/90	(1%)			0/90	(0%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....								
*Testis:								
Adenoma								
		2/90	(2%)					
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%			
.....								
*Thymus:								
Thymoma Benign								
		0/88	(0%)			1/87	(1%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	1/87 (1.15%)	Mean 1.15% SD 0%
.....								
*Thymus:								
Thymoma Malignant								
		0/88	(0%)			1/87	(1%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	1/87 (1.15%)	Mean 1.15% SD 0%
.....								
*: Denominator is number of animals with tissues examined microscopically								
#: Denominator is number of animals necropsied								

Version: Dec2020
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 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
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		Male			Female		
*Thymus:							
Thymoma: Benign, Malignant, NOS							
		0/88	(0%)		2/87	(2%)	
Overall Incidence	Total	0/88	(0%)	Mean 0%	2/87	(2.3%)	Mean 2.3%
				SD 0%			SD 0%
.....							
*Thyroid Gland: C-Cell:							
Adenoma							
		8/89	(9%)		6/90	(7%)	
Overall Incidence	Total	8/89	(8.99%)	Mean 8.99%	6/90	(6.67%)	Mean 6.67%
				SD 0%			SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma							
		2/89	(2%)		0/90	(0%)	
Overall Incidence	Total	2/89	(2.25%)	Mean 2.25%	0/90	(0%)	Mean 0%
				SD 0%			SD 0%
.....							
*Thyroid Gland: C-Cell:							
Carcinoma or Adenoma							
		10/89	(11%)		6/90	(7%)	
Overall Incidence	Total	10/89	(11.24%)	Mean 11.24%	6/90	(6.67%)	Mean 6.67%
				SD 0%			SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Adenoma							
		0/89	(0%)		0/90	(0%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	0/90	(0%)	Mean 0%
				SD 0%			SD 0%
.....							
*Thyroid Gland: Follicular Cell:							
Carcinoma							
		0/89	(0%)		1/90	(1%)	
Overall Incidence	Total	0/89	(0%)	Mean 0%	1/90	(1.11%)	Mean 1.11%
				SD 0%			SD 0%
.....							

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

Version: Dec2020
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: Whole Body Exposure
 Vehicle: AIR

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		Male			Female		
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma							
		0/89 (0%)			1/90 (1%)		
Overall Incidence	Total	0/89 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Tissue NOS: Schwannoma Malignant							
		1/90 (1%)			1/90 (1%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma							
		0/90 (0%)			1/90 (1%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous							
		0/90 (0%)			1/90 (1%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Tooth: Odontoma							
		0/90 (0%)			0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
*Urinary Bladder: Leiomyosarcoma							
		0/89 (0%)			1/88 (1%)		
Overall Incidence	Total	0/89 (0%)	Mean 0%	SD 0%	Total	1/88 (1.14%)	Mean 1.14% SD 0%

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

Version: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
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Tumor Incidence for Selected Control Animal Groups
Route: Whole Body Exposure
Vehicle: AIR

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	Male	Female
#Uterus: Adenocarcinoma		
Overall Incidence		
.....		
#Uterus: Adenocarcinoma or Adenoma		
Overall Incidence		
.....		
#Uterus: Adenoma		
Overall Incidence		
.....		
#Uterus: Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
Overall Incidence		
.....		
#Uterus: Deciduoma Benign		
Overall Incidence		
.....		
#Uterus: Granular Cell Tumor Benign		
Overall Incidence		
.....		

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

Version: Dec2020
Contract/Lab: All Laboratories
Species: RATS
Strain: Harlan Sprague-Dawley
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: Whole Body Exposure
Vehicle: AIR

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Report Date: 12/30/2020

	Male	Female
#Uterus: Hemangioma		
Overall Incidence		
#Uterus: Papilloma		
Overall Incidence		
#Uterus: Polyp Stromal		
Overall Incidence		
#Uterus: Sarcoma		
Overall Incidence		
#Uterus: Sarcoma Stromal		
Overall Incidence		
#Uterus: Sarcoma Stromal or Polyp Stromal		
Overall Incidence		

*: 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: Whole Body Exposure
 Vehicle: AIR

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	Male	Female
#Uterus: Schwannoma Malignant		
Overall Incidence		
.....		
#Uterus: Sq Cell Carcinoma or Papilloma Squamous		
Overall Incidence		
.....		
#Uterus: Squamous Cell Carcinoma		
Overall Incidence		
.....		
#Vagina: Granular Cell Tumor Benign		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		
#Vagina: Polyp		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		
#Vagina: Sarcoma		
Overall Incidence	Total 0/90 (0%)	Mean 0% SD 0%
.....		

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

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Male					Female						
#Vagina:											
Schwannoma Malignant											
					1/90 (1%)						
Overall Incidence					Total		1/90 (1.11%)		Mean 1.11%		SD 0%
.....											
#Zymbal's Gland:											
Adenoma											
					0/90 (0%)						
Overall Incidence					Total		0/90 (0%)		Mean 0%		SD 0%
.....											
#Zymbal's Gland:											
Carcinoma											
					0/90 (0%)						
Overall Incidence					Total		0/90 (0%)		Mean 0%		SD 0%
.....											
#Zymbal's Gland:											
Carcinoma or Adenoma											
					0/90 (0%)						
Overall Incidence					Total		0/90 (0%)		Mean 0%		SD 0%
.....											

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