



National Toxicology Program
Department of Health and Human Services

NTP Historical Controls Report

By Route and Vehicle

Harlan Sprague-Dawley RATS

November 2024

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 4 shows the different Route/Vehicle combinations. To see the data from all routes and vehicles combined into one set, please refer to 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 for these studies, there are blank spaces where the tumor rates would normally be found, so that the male and female rates for the remaining studies can be easily compared.

NOMENCLATURE CHANGES

The following changes to tissue or morphology nomenclature are seen in recent historical control reports:

Skin "Malignant Fibrous Histiocytoma" is now labeled as "Pleomorphic Fibrosarcoma" (changed on 2024 report).

The All Organs "Malignant Lymphoma" pool label now includes "Large Granular" (changed on 2024 report).

"Carcinoma" is now labeled as "Adenocarcinoma" for several organs, including harderian gland, intestine, mammary gland, salivary gland, and uterus (changed on 2022 report).

Small Intestine "Site Unspecified" is now labeled as "Any Site" (changed on 2022 report).

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Version: Nov2024
 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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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	050706203	06/13/16	728	50(1)	21(681)	578.9	1020 Long Multiwalled Carbon Nanotubes
Battelle Columbus Laboratory	052030203	02/23/15	730	50(1)	22(660)	566.4	alpha-Pinene
Battelle Northwest	051047203	01/17/11	729	50(5)	25(661)	609.4	p-Chloro-a,a,a-trifluorotoluene
Female							
Battelle Columbus Laboratory	050706203	06/13/16	730	50(1)	29(683)	376.0	1020 Long Multiwalled Carbon Nanotubes
Battelle Columbus Laboratory	052030203	02/23/15	731	50(1)	28(668)	350.6	alpha-Pinene
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: Nov2024
 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		
#All Organs:							
Benign Tumors							
		33/50 (66%)	24/50 (48%)	30/50 (60%)	43/50 (86%)	39/50 (78%)	39/50 (78%)
Overall Incidence	Total	87/150 (58%)	Mean 58%	SD 9.17%	Total	121/150 (80.67%)	Mean 80.67% SD 4.62%
.....							
#All Organs:							
Malignant Tumors							
		6/50 (12%)	20/50 (40%)	12/50 (24%)	8/50 (16%)	16/50 (32%)	11/50 (22%)
Overall Incidence	Total	38/150 (25.33%)	Mean 25.33%	SD 14.05%	Total	35/150 (23.33%)	Mean 23.33% SD 8.08%
.....							
#All Organs:							
Malignant and Benign Tumors							
		35/50 (70%)	36/50 (72%)	37/50 (74%)	44/50 (88%)	45/50 (90%)	41/50 (82%)
Overall Incidence	Total	108/150 (72%)	Mean 72%	SD 2%	Total	130/150 (86.67%)	Mean 86.67% SD 4.16%
.....							
#All Organs:							
Hemangioma							
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma							
		0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%	Total	0/150 (0%)	Mean 0% SD 0%

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

Version: Nov2024
 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							
#All Organs:													
Histiocytic Sarcoma													
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/150 (0.67%)		Mean 0.67%		SD 1.15%		Total 0/150 (0%)		Mean 0%		SD 0%	
.....													
#All Organs:													
Leukemia: Granulocytic													
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/150 (0.67%)		Mean 0.67%		SD 1.15%		Total 0/150 (0%)		Mean 0%		SD 0%	
.....													
#All Organs:													
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated													
		0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	3/150 (2%)		Mean 2%		SD 3.46%		Total 0/150 (0%)		Mean 0%		SD 0%	
.....													
#All Organs:													
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, Large Granular, or Undifferentiated Cell Type													
		1/50	(2%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	3/150 (2%)		Mean 2%		SD 2%		Total 1/150 (0.67%)		Mean 0.67%		SD 1.15%	
.....													
#All Organs:													
Malignant Schwannoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)		
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%		Total 2/150 (1.33%)		Mean 1.33%		SD 2.31%	
.....													
#All Organs:													
Mesothelioma: Benign, Malignant, NOS													
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/150 (0.67%)		Mean 0.67%		SD 1.15%		Total 0/150 (0%)		Mean 0%		SD 0%	

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

Version: Nov2024
 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: 11/07/2024

		Male			Female			
#All Organs:								
Mesothelioma: Malignant								
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Adrenal Cortex:								
Adenoma								
		0/50 (0%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	
Overall Incidence	Total	4/150 (2.67%)	Mean 2.67%	SD 3.06%	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%
.....								
*Adrenal Cortex:								
Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Adrenal Cortex:								
Carcinoma or Adenoma								
		0/50 (0%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	3/50 (6%)	0/50 (0%)	
Overall Incidence	Total	4/150 (2.67%)	Mean 2.67%	SD 3.06%	Total	3/150 (2%)	Mean 2%	SD 3.46%
.....								
*Adrenal Medulla:								
Ganglioneuroma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/149 (0%)	Mean 0%	SD 0%
.....								
*Adrenal Medulla:								
Pheochromocytoma Benign								
		9/50 (18%)	6/50 (12%)	12/50 (24%)	2/50 (4%)	3/50 (6%)	0/49 (0%)	
Overall Incidence	Total	27/150 (18%)	Mean 18%	SD 6%	Total	5/149 (3.36%)	Mean 3.33%	SD 3.06%

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 #: Denominator is number of animals necropsied

Version: Nov2024
 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		
*Adrenal Medulla:							
 Pheochromocytoma Complex							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/149 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
 Pheochromocytoma Malignant							
		0/50 (0%)	6/50 (12%)	2/50 (4%)		0/50 (0%)	2/50 (4%)
Overall Incidence	Total	8/150 (5.33%)	Mean 5.33%	SD 6.11%	Total	2/149 (1.34%)	Mean 1.33% SD 2.31%
.....							
*Adrenal Medulla:							
 Pheochromocytoma: Benign, Complex, Malignant, NOS							
		9/50 (18%)	12/50 (24%)	14/50 (28%)		2/50 (4%)	5/50 (10%)
Overall Incidence	Total	35/150 (23.33%)	Mean 23.33%	SD 5.03%	Total	7/149 (4.7%)	Mean 4.67% SD 5.03%
.....							
#Bone:							
 Hemangiosarcoma							
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Bone:							
 Osteosarcoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Bone:							
 Osteosarcoma or Osteoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%

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

Version: Nov2024
 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			
*Brain:								
Astrocytoma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Brain:								
Glioma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Brain:								
Glioma Malignant								
		1/50 (2%)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	3/149 (2.01%)	Mean 2%	SD 2%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Brain:								
Granular Cell Tumor Benign								
		2/50 (4%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	3/149 (2.01%)	Mean 2.01%	SD 2%	Total	2/150 (1.33%)	Mean 1.33%	SD 1.15%
.....								
*Brain:								
Granular Cell Tumor Malignant								
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Brain:								
Meningioma Benign								
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%

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

Version: Nov2024
 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					
*Brain:											
 Meningioma Malignant											
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/149	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Meningioma: Benign, Malignant, NOS											
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/149	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Oligodendroglioma Malignant											
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/149	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
*Brain:											
 Oligodendroglioma, Glioma, or Astrocytoma											
		1/50	(2%)	2/49	(4%)	2/50	(4%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	5/149	(3.36%)	Mean 3.36%	SD 1.18%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
*Brain:											
 Schwannoma Malignant											
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/149	(0%)	Mean 0%	SD 0%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
*Clitoral/Preputial Gland:											
 Adenocarcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/148	(0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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			
*Clitoral/Preputial Gland:								
Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/148 (0%)	Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Adenoma or Adenocarcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/148 (0%)	Mean 0%	SD 0%
.....								
*Clitoral/Preputial Gland:								
Squamous Cell Carcinoma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	1/148 (0.68%)	Mean 0.68%	SD 1.18%
.....								
*Clitoral/Preputial Gland:								
Squamous Cell Papilloma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/148 (0%)	Mean 0%	SD 0%
.....								
*Epididymis:								
Sarcoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)				
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%				
.....								
#Eye:								
Leiomyoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%

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

Version: Nov2024
 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			
#Harderian Gland:								
Schwannoma Malignant								
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Heart:								
Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Intestine Large: Cecum:								
Leiomyosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Intestine Large: Cecum:								
Liposarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (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%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Intestine Large: Colon/Rectum:								
Leiomyoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%

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

Version: Nov2024
 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 Small: Any Site: Adenocarcinoma							
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Any Site: Adenoma or Adenocarcinoma							
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Any Site: Leiomyosarcoma							
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Any Site: Leiomyosarcoma or Leiomyoma							
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	1/150 (0.67%)	Mean 0.67% SD 1.15%
.....							
#Intestine Small: Jejunum: Adenocarcinoma							
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Jejunum: Leiomyoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67% SD 1.15%

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

Version: Nov2024
 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 Small: Jejunum:								
Leiomyosarcoma								
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Islets, Pancreatic:								
Adenoma								
		3/50 (6%)	1/50 (2%)	8/50 (16%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	12/150 (8%)	Mean 8%	SD 7.21%	Total	2/150 (1.33%)	Mean 1.33%	SD 1.15%
.....								
*Islets, Pancreatic:								
Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Islets, Pancreatic:								
Carcinoma or Adenoma								
		3/50 (6%)	1/50 (2%)	8/50 (16%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	
Overall Incidence	Total	12/150 (8%)	Mean 8%	SD 7.21%	Total	3/150 (2%)	Mean 2%	SD 2%
.....								
*Kidney: Pelvis and Urothelium:								
Papilloma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Kidney: Renal Tubule:								
Adenoma								
		2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%

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

Version: Nov2024
 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							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67% SD 1.15%
.....							
*Kidney: Renal Tubule: Carcinoma or Adenoma							
		2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	2/150 (1.33%)	Mean 1.33% SD 1.15%
.....							
*Kidney: Renal Tubule: Hemangioma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Lipoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Liposarcoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%
.....							
*Kidney: Renal Tubule: Oncocytoma Benign							
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0% SD 0%

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

Version: Nov2024
 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									
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/150 (0%)	Mean 0%	SD 0%		0/150 (0%)	Mean 0%	SD 0%	
.....									
#Lacrimal Gland:									
Carcinoma									
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/150 (0%)	Mean 0%	SD 0%		0/150 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Cholangioma									
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
		0/150 (0%)	Mean 0%	SD 0%		5/150 (3.33%)	Mean 3.33%	SD 5.77%	
.....									
*Liver:									
Hemangioma									
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/150 (0%)	Mean 0%	SD 0%		0/150 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hepatocellular Adenoma									
Overall Incidence	Total	0/50 (0%)	1/50 (2%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
		1/150 (0.67%)	Mean 0.67%	SD 1.15%		2/150 (1.33%)	Mean 1.33%	SD 2.31%	
.....									
*Liver:									
Hepatocellular Carcinoma									
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/150 (0%)	Mean 0%	SD 0%		0/150 (0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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 or Hepatoblastoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	
.....									
*Lung:									
Alveolar/Bronchiolar Adenoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	0/150 (0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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			
#Lymph Node, Mesenteric:								
Hemangiosarcoma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenocarcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	4/50 (8%)	5/50 (10%)	5/50 (10%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	14/150 (9.33%)	Mean 9.33%	SD 1.15%
.....								
#Mammary Gland:								
Adenolipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Mammary Gland:								
Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	4/50 (8%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	7/150 (4.67%)	Mean 4.67%	SD 3.06%
.....								
#Mammary Gland:								
Adenoma or Adenocarcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	6/50 (12%)	6/50 (12%)	9/50 (18%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	21/150 (14%)	Mean 14%	SD 3.46%
.....								
#Mammary Gland:								
Fibroadenoma								
		0/50 (0%)	1/50 (2%)	2/50 (4%)	31/50 (62%)	28/50 (56%)	20/50 (40%)	
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%	Total	79/150 (52.67%)	Mean 52.67%	SD 11.37%

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 #: Denominator is number of animals necropsied

Version: Nov2024
 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			
#Mammary Gland:									
Fibroma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma or Adenoma									
		0/50 (0%)	1/50 (2%)	2/50 (4%)		33/50 (66%)	29/50 (58%)	23/50 (46%)	
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%	Total	85/150 (56.67%)	Mean 56.67%	SD 10.07%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma, Adenocarcinoma, or Adenoma									
		0/50 (0%)	1/50 (2%)	2/50 (4%)		35/50 (70%)	33/50 (66%)	27/50 (54%)	
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%	Total	95/150 (63.33%)	Mean 63.33%	SD 8.33%	
.....									
#Nerve Trigeminal:									
Schwannoma Malignant									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Oral Mucosa:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Oral Mucosa, Tongue, Pharynx, or Gingiva:									
Squamous Cell Carcinoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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			
#Oral Mucosa, Tongue, Pharynx, or Gingiva:								
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Ovary:								
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma								
					0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total				0/150 (0%)	Mean 0%	SD 0%	
.....								
*Ovary:								
Adenoma								
					0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%				
.....								
*Ovary:								
Cystadenoma								
					0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%				
.....								
*Ovary:								
Cystadenoma or Cystadenocarcinoma								
					0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%				
.....								
*Ovary:								
Granulosa-Theca Tumor Benign								
					0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%				

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

Version: Nov2024
 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-Theca Tumor Malignant						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%		SD 0%
.....						
*Ovary:						
Granulosa Cell Tumor Benign						
		0/50	(0%)	0/50	(0%)	3/50
Overall Incidence	Total	3/150	(2%)	Mean 2%		SD 3.46%
.....						
*Ovary:						
Granulosa Cell Tumor Malignant						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%		SD 0%
.....						
*Ovary:						
Granulosa Cell Tumor, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)						
		1/50	(2%)	0/50	(0%)	4/50
Overall Incidence	Total	5/150	(3.33%)	Mean 3.33%		SD 4.16%
.....						
*Ovary:						
Granulosa Cell Tumor: Benign, Malignant, NOS						
		0/50	(0%)	0/50	(0%)	3/50
Overall Incidence	Total	3/150	(2%)	Mean 2%		SD 3.46%
.....						
*Ovary:						
Luteoma						
		1/50	(2%)	0/50	(0%)	0/50
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%		SD 1.15%
.....						

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

Version: Nov2024
 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:													
Schwannoma Malignant													
					0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence					Total	0/150 (0%)	Mean	0%	SD	0%			
.....													
*Ovary:													
Sertoli Cell Tumor Benign													
					0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence					Total	0/150 (0%)	Mean	0%	SD	0%			
.....													
*Ovary:													
Thecoma Benign													
					0/50	(0%)	0/50	(0%)	1/50	(2%)			
Overall Incidence					Total	1/150 (0.67%)	Mean	0.67%	SD	1.15%			
.....													
*Pancreas:													
Adenocarcinoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence		Total	0/150 (0%)	Mean	0%	SD	0%	Total	0/150 (0%)	Mean	0%	SD	0%
.....													
*Pancreas:													
Adenoma													
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence		Total	1/150 (0.67%)	Mean	0.67%	SD	1.15%	Total	1/150 (0.67%)	Mean	0.67%	SD	1.15%
.....													
*Pancreas:													
Adenoma or Adenocarcinoma													
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence		Total	1/150 (0.67%)	Mean	0.67%	SD	1.15%	Total	1/150 (0.67%)	Mean	0.67%	SD	1.15%

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

Version: Nov2024
 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			
*Parathyroid Gland:								
Adenoma								
		3/49 (6%)	0/45 (0%)	0/48 (0%)	1/47 (2%)	0/48 (0%)	0/45 (0%)	
Overall Incidence	Total	3/142 (2.11%)	Mean 2.04%	SD 3.53%	Total	1/140 (0.71%)	Mean 0.71%	SD 1.23%
.....								
#Peripheral Nerve:								
Paranglioma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Peripheral Nerve:								
Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Pharynx:								
Squamous Cell Carcinoma								
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Adenoma								
		9/50 (18%)	11/49 (22%)	11/50 (22%)	20/50 (40%)	23/50 (46%)	18/50 (36%)	
Overall Incidence	Total	31/149 (20.81%)	Mean 20.82%	SD 2.45%	Total	61/150 (40.67%)	Mean 40.67%	SD 5.03%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
Carcinoma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	4/50 (8%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%	Total	5/150 (3.33%)	Mean 3.33%	SD 4.16%

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

Version: Nov2024
 Contract/Lab: All Laboratories
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 Strain: Harlan Sprague-Dawley
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Toxicology Data Management System
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		Male			Female			
*Pituitary Gland: Pars Distalis or Unspecified Site:								
 Carcinoma or Adenoma								
		9/50 (18%)	12/49 (24%)	11/50 (22%)	21/50 (42%)	27/50 (54%)	18/50 (36%)	
Overall Incidence	Total	32/149 (21.48%)	Mean 21.5%	SD 3.27%	Total	66/150 (44%)	Mean 44%	SD 9.17%
.....								
*Pituitary Gland: Pars Distalis or Unspecified Site:								
 Schwannoma Malignant								
		1/50 (2%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Pituitary Gland: Pars Intermedia:								
 Adenoma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Pituitary Gland: Pars Intermedia:								
 Carcinoma or Adenoma								
		0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
.....								
*Pituitary Gland: Pars Nervosa:								
 Schwannoma Malignant								
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Prostate:								
 Adenoma								
		1/50 (2%)	1/50 (2%)	0/50 (0%)				
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 1.15%				

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

Version: Nov2024
 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			
*Prostate:									
Adenoma or Adenocarcinoma									
		1/50	(2%)	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	2/150 (1.33%)		Mean 1.33%		SD 1.15%			
.....									
*Salivary Glands:									
Schwannoma Malignant									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%		Total	0/150 (0%)
								Mean	0%
								SD	0%
.....									
#Seminal Vesicle:									
Hemangiosarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%			
.....									
#Skeletal Muscle:									
Fibrosarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%		Total	1/150 (0.67%)
								Mean	0.67%
								SD	1.15%
.....									
#Skeletal Muscle:									
Hemangioma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%		Total	0/150 (0%)
								Mean	0%
								SD	0%
.....									
#Skeletal Muscle:									
Hemangiosarcoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150 (0%)		Mean 0%		SD 0%		Total	0/150 (0%)
								Mean	0%
								SD	0%

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

Version: Nov2024
 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					
#Skeletal Muscle:											
Liposarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
#Skeletal Muscle:											
Sarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Basal Cell Adenoma											
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Basal Cell Carcinoma											
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
#Skin:											
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma											
		7/50	(14%)	1/50	(2%)	5/50	(10%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	13/150	(8.67%)	Mean 8.67%	SD 6.11%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
#Skin:											
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma											
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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:									
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland Adenoma									
		7/50 (14%)	0/50 (0%)	5/50 (10%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	12/150 (8%)	Mean 8%	SD 7.21%	Total	0/150 (0%)	Mean 0%	SD 0%	

#Skin:									
Fibroma									
		3/50 (6%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 3.46%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	

#Skin:									
Fibroma or Myxoma									
		3/50 (6%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 3.46%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	

#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Pleomorphic Fibrosarcoma									
		3/50 (6%)	5/50 (10%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	9/150 (6%)	Mean 6%	SD 4%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	

#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Pleomorphic Fibrosarcoma, or Hemangiopericytoma									
		3/50 (6%)	5/50 (10%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	9/150 (6%)	Mean 6%	SD 4%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	

#Skin:									
Fibrosarcoma									
		0/50 (0%)	5/50 (10%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	5/150 (3.33%)	Mean 3.33%	SD 5.77%	Total	0/150 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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:											
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic Fibrosarcoma											
		0/50	(0%)	5/50	(10%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	6/150	(4%)	Mean 4%	SD 5.29%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Hemangioma											
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Hemangiopericytoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Keratoacanthoma											
		3/50	(6%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	6/150	(4%)	Mean 4%	SD 3.46%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Lipoma											
		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean 1.33%	SD 1.15%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Liposarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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:									
Neurofibrosarcoma or Schwannoma (malignant or NOS)									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Osteosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Papilloma									
		3/50 (6%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 3.46%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Pilomatrixoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Pleomorphic Fibrosarcoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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:											
Sarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Schwannoma Malignant											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Squamous Cell Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(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%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	
.....											
#Skin:											
Squamous Cell Papilloma											
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Squamous Cell Papilloma or Papilloma											
		3/50	(6%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/150	(2.67%)	Mean 2.67%	SD 3.06%	Total	0/150	(0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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:							
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma							
		6/50 (12%)	0/50 (0%)	4/50 (8%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	10/150 (6.67%)	Mean 6.67%	SD 6.11%	Total	0/150 (0%)	Mean 0%
						SD 0%	
.....							
#Skin:							
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma							
		6/50 (12%)	0/50 (0%)	4/50 (8%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	10/150 (6.67%)	Mean 6.67%	SD 6.11%	Total	0/150 (0%)	Mean 0%
						SD 0%	
.....							
#Skin:							
Trichoepithelioma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%
						SD 0%	
.....							
#Skin: Sebaceous Gland:							
Adenoma							
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%
						SD 0%	
.....							
*Spleen:							
Hemangiosarcoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%
						SD 0%	
.....							
#Stomach, Forestomach:							
Papilloma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	2/150 (1.33%)	Mean 1.33%
						SD 1.15%	

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

Version: Nov2024
 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			
#Stomach, Forestomach:								
Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Carcinoma or Papilloma Squamous								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Stomach, Forestomach:								
Squamous Cell Papilloma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
#Stomach, Glandular:								
Sarcoma								
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%
.....								
*Testis:								
Adenoma								
		2/50 (4%)	1/50 (2%)	0/50 (0%)				
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%				
.....								
*Thymus:								
Schwannoma Malignant								
		0/50 (0%)	0/50 (0%)	0/48 (0%)	1/50 (2%)	0/47 (0%)		
Overall Incidence	Total	0/148 (0%)	Mean 0%	SD 0%	Total	1/147 (0.68%)	Mean 0.67%	SD 1.15%
.....								

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

Version: Nov2024
 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			
*Thymus:								
Thymoma Benign								
		0/50 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/47 (0%)	0/50 (0%)	
Overall Incidence	Total	0/148 (0%)	Mean 0%	SD 0%	Total	0/147 (0%)	Mean 0%	SD 0%
.....								
*Thymus:								
Thymoma Malignant								
		0/50 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/47 (0%)	0/50 (0%)	
Overall Incidence	Total	0/148 (0%)	Mean 0%	SD 0%	Total	0/147 (0%)	Mean 0%	SD 0%
.....								
*Thymus:								
Thymoma: Benign, Malignant, NOS								
		0/50 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/47 (0%)	0/50 (0%)	
Overall Incidence	Total	0/148 (0%)	Mean 0%	SD 0%	Total	0/147 (0%)	Mean 0%	SD 0%
.....								
*Thyroid Gland: C-Cell:								
Adenoma								
		12/49 (24%)	7/50 (14%)	2/50 (4%)	10/50 (20%)	12/50 (24%)	2/50 (4%)	
Overall Incidence	Total	21/149 (14.09%)	Mean 14.16%	SD 10.25%	Total	24/150 (16%)	Mean 16%	SD 10.58%
.....								
*Thyroid Gland: C-Cell:								
Carcinoma								
		0/49 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	2/149 (1.34%)	Mean 1.33%	SD 1.15%	Total	2/150 (1.33%)	Mean 1.33%	SD 1.15%
.....								
*Thyroid Gland: C-Cell:								
Carcinoma or Adenoma								
		12/49 (24%)	8/50 (16%)	3/50 (6%)	11/50 (22%)	13/50 (26%)	2/50 (4%)	
Overall Incidence	Total	23/149 (15.44%)	Mean 15.5%	SD 9.26%	Total	26/150 (17.33%)	Mean 17.33%	SD 11.72%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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			
*Thyroid Gland: Follicular Cell: Adenoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/149 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Tissue NOS: Schwannoma Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Tongue: Fibrosarcoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/150 (0%)	Mean 0%	SD 0%	
.....									
#Tongue: Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	

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

Version: Nov2024
 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					
#Tongue:											
Squamous Cell Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Tongue:											
Squamous Cell Carcinoma or Papilloma Squamous											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
#Tooth:											
Odontoma											
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean 0.67%	SD 1.15%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
*Urinary Bladder:											
Leiomyosarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	Total	0/150	(0%)	Mean 0%	SD 0%	
.....											
*Uterus:											
Adenocarcinoma											
						0/50	(0%)	1/50	(2%)	1/50	(2%)
Overall Incidence						Total	2/150	(1.33%)	Mean 1.33%	SD 1.15%	
.....											
*Uterus:											
Adenocarcinoma or Adenoma											
						0/50	(0%)	1/50	(2%)	1/50	(2%)
Overall Incidence						Total	2/150	(1.33%)	Mean 1.33%	SD 1.15%	

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

Version: Nov2024
 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: 11/07/2024

	Male			Female		
*Uterus:						
Adenoma						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	(0%)
.....						
*Uterus:						
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma						
		0/50	(0%)	1/50	(2%)	2/50
Overall Incidence	Total	3/150	(2%)	Mean 2%	SD 2%	(4%)
.....						
*Uterus:						
Deciduoma Benign						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	(0%)
.....						
*Uterus:						
Granular Cell Tumor Benign						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	(0%)
.....						
*Uterus:						
Hemangioma						
		0/50	(0%)	0/50	(0%)	0/50
Overall Incidence	Total	0/150	(0%)	Mean 0%	SD 0%	(0%)
.....						
*Uterus:						
Polyp Stromal						
		1/50	(2%)	5/50	(10%)	7/50
Overall Incidence	Total	13/150	(8.67%)	Mean 8.67%	SD 6.11%	(14%)

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

Version: Nov2024
 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: 11/07/2024

	Male	Female
*Uterus:		
Sarcoma		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/150 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/150 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal or Polyp Stromal		
	1/50 (2%)	5/50 (10%)
Overall Incidence	Total 13/150 (8.67%)	Mean 8.67% SD 6.11%
.....		
*Uterus:		
Schwannoma Malignant		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/150 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Sq Cell Carcinoma or Papilloma Squamous		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/150 (0.67%)	Mean 0.67% SD 1.15%
.....		
*Uterus:		
Squamous Cell Carcinoma		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 1/150 (0.67%)	Mean 0.67% SD 1.15%

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

Version: Nov2024
 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: 11/07/2024

				Male					Female	
*Uterus:										
Squamous Cell Papilloma										
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/150 (0%)	Mean 0%		0/50 (0%)	SD 0%	
.....										
#Vagina:										
Granular Cell Tumor Benign										
				0/50 (0%)					1/50 (2%)	
Overall Incidence				Total	1/150 (0.67%)	Mean 0.67%		SD 1.15%		
.....										
#Vagina:										
Polyp										
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/150 (0%)	Mean 0%		SD 0%		
.....										
#Vagina:										
Sarcoma										
				0/50 (0%)					0/50 (0%)	
Overall Incidence				Total	0/150 (0%)	Mean 0%		SD 0%		
.....										
#Vagina:										
Schwannoma Malignant										
				0/50 (0%)					1/50 (2%)	
Overall Incidence				Total	1/150 (0.67%)	Mean 0.67%		SD 1.15%		
.....										
#Zymbal's Gland:										
Adenoma										
		0/50 (0%)			0/50 (0%)			0/50 (0%)		
Overall Incidence		Total	0/150 (0%)	Mean 0%	SD 0%	Total		0/150 (0%)	Mean 0%	SD 0%

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

Version: Nov2024

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: 11/07/2024

		Male				Female								
#Zymbal's Gland:														
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma														
		0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	2/150 (1.33%)		Mean	1.33%	SD	1.15%	Total	1/150 (0.67%)		Mean	0.67%	SD	1.15%
.....														
#Zymbal's Gland:														
Carcinoma														
		0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	2/150 (1.33%)		Mean	1.33%	SD	1.15%	Total	1/150 (0.67%)		Mean	0.67%	SD	1.15%
.....														

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
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: 11/07/2024

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: Nov2024
 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: 11/07/2024

		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: Nov2024
 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: 11/07/2024

		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%)
.....							
#All Organs:							
Leukemia: Granulocytic							
		0/50	(0%)		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (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%)
.....							
#All Organs:							
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, Large Granular, or Undifferentiated Cell Type							
		2/50	(4%)		1/50	(2%)	
Overall Incidence	Total	2/50	(4%)	Mean 4%	SD 0%	Total	1/50 (2%)
.....							
#All Organs:							
Malignant Schwannoma							
		3/50	(6%)		1/50	(2%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50 (2%)
.....							
#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%)

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

Version: Nov2024
 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: 11/07/2024

	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%
.....								
*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 Cortex:								
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%
.....								
*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%
.....								
*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%

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

Version: Nov2024
 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: 11/07/2024

		Male			Female		
*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:							
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%
#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: Nov2024
 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: 11/07/2024

		Male				Female			
*Brain:									
Astrocytoma									
		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:									
Glioma									
		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:									
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%

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

Version: Nov2024
 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: 11/07/2024

		Male			Female		
*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%
.....							
*Brain:							
Oligodendroglioma 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:							
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:							
Adenocarcinoma							
		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%
.....							

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

		Male				Female			
*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:									
Adenoma or Adenocarcinoma									
		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%
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		0/49	(0%)			1/49	(2%)		
Overall Incidence	Total	0/49	(0%)	Mean 0%	SD 0%	Total	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%	Total	0/50	(0%)	Mean 0% SD 0%
.....									

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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: 11/07/2024

		Male			Female		
#Harderian Gland:							
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%
.....							
*Heart:							
Schwannoma Malignant							
		3/50	(6%)		1/50	(2%)	
Overall Incidence	Total	3/50	(6%)	Mean 6%	SD 0%	Total	1/50 (2%)
						Mean 2%	SD 0%
.....							
#Intestine Large: Cecum:							
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 Large: Cecum:							
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%
.....							
#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%)
						Mean 0%	SD 0%
.....							
#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%

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

Version: Nov2024
 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				
#Intestine Small: Any Site: Adenocarcinoma									
		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: Any Site: Adenoma or Adenocarcinoma									
		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: Any Site: 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: Any Site: Leiomyosarcoma or 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: Adenocarcinoma									
		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: 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%

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

Version: Nov2024
 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			
#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%
.....									
*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 Urothelium:									
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%
.....									

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

Version: Nov2024
 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			
*Kidney: Renal Tubule: Carcinoma									
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
.....									
*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: 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: Nov2024
 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			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
		1/50	(2%)			0/50	(0%)		
Overall Incidence	Total	1/50	(2%)	Mean 2%	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:									
Cholangioma									
		0/50	(0%)			1/50	(2%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	1/50	(2%)	Mean 2% SD 0%
.....									
*Liver:									
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%
.....									
*Liver:									
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									
		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: Nov2024
 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			
*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%)
.....								
*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%)
.....								
*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%)
.....								
*Lung:								
Alveolar/Bronchiolar Adenoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(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%)
.....								
*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%)

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

Version: Nov2024
 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			
#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:									
Adenocarcinoma									
		0/50	(0%)			8/50	(16%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	8/50	(16%)	Mean 16% 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%
.....									
#Mammary Gland:									
Adenoma or Adenocarcinoma									
		0/50	(0%)			8/50	(16%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	8/50	(16%)	Mean 16% SD 0%
.....									
#Mammary Gland:									
Fibroadenoma									
		0/50	(0%)			25/50	(50%)		
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	25/50	(50%)	Mean 50% SD 0%

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

Version: Nov2024
 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		
#Mammary Gland:							
Fibroma							
		0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma or Adenoma							
		0/50	(0%)			25/50	(50%)
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	25/50 (50%)
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma, Adenocarcinoma, or Adenoma							
		0/50	(0%)			29/50	(58%)
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	29/50 (58%)
.....							
#Nerve Trigeminal:							
Schwannoma Malignant							
		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%)
.....							
#Oral Mucosa, Tongue, Pharynx, or Gingiva:							
Squamous Cell Carcinoma							
		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: Nov2024
 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			
#Oral Mucosa, Tongue, Pharynx, or 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%)
.....								
*Ovary:								
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Adenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Cystadenoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Cystadenoma or Cystadenocarcinoma								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								
*Ovary:								
Granulosa-Theca Tumor Benign								
						0/50	(0%)	
Overall Incidence						Total	0/50	(0%)
.....								

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

Version: Nov2024
 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-Theca Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Benign				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Malignant				
		0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)				
		2/50	(4%)	
Overall Incidence	Total	2/50	(4%)	Mean 4% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		1/50	(2%)	
Overall Incidence	Total	1/50	(2%)	Mean 2% SD 0%
.....				
*Ovary:				
Luteoma				
		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: Nov2024
 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:								
Schwannoma Malignant								
					0/50	(0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%
.....								
*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%
.....								
*Pancreas:								
Adenocarcinoma								
		0/49	(0%)					
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	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:								
Adenoma or Adenocarcinoma								
		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: Nov2024
 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: 11/07/2024

		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%
.....							
#Pharynx:							
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%
.....							
*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: Nov2024
 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 Distalis or Unspecified Site:									
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%
.....									
*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%				

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

Version: Nov2024
 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			
*Prostate:								
Adenoma or Adenocarcinoma								
		1/50	(2%)					
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%			
.....								
*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:								
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%
.....								
#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:								
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%

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

Version: Nov2024
 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: 11/07/2024

	Male				Female			
#Skeletal Muscle:								
Liposarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)

#Skeletal Muscle:								
Sarcoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(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%)

#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 or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma								
		1/50	(2%)			0/50	(0%)	
Overall Incidence	Total	1/50	(2%)	Mean 2%	SD 0%	Total	0/50	(0%)

#Skin:								
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma								
		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: Nov2024
 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: 11/07/2024

	Male				Female			
#Skin:								
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland 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%
.....								
#Skin:								
Fibroma								
		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:								
Fibroma or Myxoma								
		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:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		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, Pleomorphic Fibrosarcoma, or Hemangiopericytoma								
		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:								
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%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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: 11/07/2024

	Male				Female			
#Skin:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic 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:								
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%
.....								
#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:								
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%

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

Version: Nov2024
 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: 11/07/2024

	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:								
Papilloma								
		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:								
Pleomorphic Fibrosarcoma								
		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: Nov2024
 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: 11/07/2024

	Male				Female			
#Skin:								
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:								
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%
.....								
#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%

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

Version: Nov2024
 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: 11/07/2024

	Male				Female			
#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%
.....								
#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:								
Trichoepithelioma								
		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: Sebaceous 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%
.....								
*Spleen:								
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%
.....								
#Stomach, Forestomach:								
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%

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

Version: Nov2024
 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: 11/07/2024

		Male			Female		
#Stomach, Forestomach:							
Sarcoma							
		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%)
.....							
#Stomach, Glandular:							
Sarcoma							
		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:							
Schwannoma 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: Nov2024
 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: 11/07/2024

		Male			Female		
*Thymus:							
Thymoma Benign							
		0/48	(0%)		0/49	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/49 (0%)
							Mean 0%
							SD 0%
.....							
*Thymus:							
Thymoma Malignant							
		0/48	(0%)		0/49	(0%)	
Overall Incidence	Total	0/48	(0%)	Mean 0%	SD 0%	Total	0/49 (0%)
							Mean 0%
							SD 0%
.....							
*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%

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

Version: Nov2024
 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: 11/07/2024

		Male				Female			
*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%
.....									
*Thyroid Gland: Follicular Cell: 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%
.....									
#Tissue NOS: 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%
.....									
#Tongue: 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%
.....									
#Tongue: 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%

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

Version: Nov2024
 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: 11/07/2024

	Male				Female			
#Tongue:								
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%
.....								
#Tongue:								
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%
.....								
#Tooth:								
Odontoma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0% SD 0%
.....								
*Urinary Bladder:								
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%
.....								
*Uterus:								
Adenocarcinoma								
						2/50	(4%)	
Overall Incidence						Total	2/50 (4%)	Mean 4% SD 0%
.....								
*Uterus:								
Adenocarcinoma or Adenoma								
						2/50	(4%)	
Overall Incidence						Total	2/50 (4%)	Mean 4% SD 0%
.....								

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

Version: Nov2024
 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: 11/07/2024

	Male		Female	
*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				
		2/50	(4%)	
Overall Incidence	Total	2/50	(4%)	Mean 4% 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%
.....				
*Uterus:				
Hemangioma				
		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%
.....				

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

Version: Nov2024
 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: 11/07/2024

	Male		Female	
*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%
.....				
*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%
.....				

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

Version: Nov2024
 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: 11/07/2024

Male					Female					
*Uterus:										
Squamous Cell Papilloma										
					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%
.....										
#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%
.....										

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

Version: Nov2024

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: 11/07/2024

	Male				Female			
#Zymbal's Gland:								
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma								
		0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/50	(0%)	Mean 0%	SD 0%	Total	0/50	(0%)
.....								
#Zymbal's Gland:								
Carcinoma								
		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: Nov2024
 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: 11/07/2024

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	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	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: Nov2024
 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			
#All Organs:									
Benign Tumors									
		28/50 (56%)	25/50 (50%)		41/50 (82%)	41/50 (82%)			
Overall Incidence	Total	53/100 (53%)	Mean 53%	SD 4.24%	Total	82/100 (82%)	Mean 82%	SD 0%	
.....									
#All Organs:									
Malignant Tumors									
		15/50 (30%)	9/50 (18%)		14/50 (28%)	10/50 (20%)			
Overall Incidence	Total	24/100 (24%)	Mean 24%	SD 8.49%	Total	24/100 (24%)	Mean 24%	SD 5.66%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		36/50 (72%)	30/50 (60%)		44/50 (88%)	46/50 (92%)			
Overall Incidence	Total	66/100 (66%)	Mean 66%	SD 8.49%	Total	90/100 (90%)	Mean 90%	SD 2.83%	
.....									
#All Organs:									
Hemangioma									
		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:									
Hemangiosarcoma									
		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%	
.....									
#All Organs:									
Hemangiosarcoma or Hemangioma									
		0/50 (0%)	0/50 (0%)		2/50 (4%)	1/50 (2%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	3/100 (3%)	Mean 3%	SD 1.41%	
.....									

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

Version: Nov2024
 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					
#All Organs:											
Histiocytic Sarcoma											
		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:											
Leukemia: Granulocytic											
		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:											
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated											
		0/50	(0%)	1/50	(2%)			1/50	(2%)	2/50	(4%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	3/100	(3%)	Mean 3%	SD 1.41%	
.....											
#All Organs:											
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, Large Granular, or Undifferentiated Cell Type											
		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%	
.....											
#All Organs:											
Malignant Schwannoma											
		6/50	(12%)	0/50	(0%)			3/50	(6%)	0/50	(0%)
Overall Incidence	Total	6/100	(6%)	Mean 6%	SD 8.49%	Total	3/100	(3%)	Mean 3%	SD 4.24%	
.....											
#All Organs:											
Mesothelioma: Benign, Malignant, NOS											
		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%	

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

Version: Nov2024
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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			
#All Organs:									
Mesothelioma: Malignant									
		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%
*Adrenal Cortex:									
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%
*Adrenal Cortex:									
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%
*Adrenal Cortex:									
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%
*Adrenal Medulla:									
Ganglioneuroma									
		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%
*Adrenal Medulla:									
Pheochromocytoma Benign									
		5/50	(10%)	6/50	(12%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	11/100	(11%)	Mean 11%	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: Nov2024
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female					
*Adrenal Medulla:											
Pheochromocytoma Complex											
		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%	
.....											
*Adrenal Medulla:											
Pheochromocytoma 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%	
.....											
*Adrenal Medulla:											
Pheochromocytoma: Benign, Complex, Malignant, NOS											
		6/50	(12%)	6/50	(12%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	12/100	(12%)	Mean 12%	SD 0%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Bone:											
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%	
.....											
#Bone:											
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%	
.....											
#Bone:											
Osteosarcoma or Osteoma											
		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: Nov2024
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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			
*Brain:									
Astrocytoma									
		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:									
Glioma									
		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:									
Glioma 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:									
Granular Cell Tumor Benign									
		0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1% SD 1.41%
.....									
*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%

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

Version: Nov2024
 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					
*Brain:											
Meningioma Malignant											
		0/50	(0%)	1/50	(2%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
*Brain:											
Meningioma: Benign, Malignant, NOS											
		0/50	(0%)	1/50	(2%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
*Brain:											
Oligodendroglioma 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:											
Oligodendroglioma, Glioma, or Astrocytoma											
		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:											
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:											
Adenocarcinoma											
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/46	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%	SD 0%	

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Version: Nov2024
 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			
*Clitoral/Preputial Gland:									
Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/46	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%
SD 0%									
*Clitoral/Preputial Gland:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/46	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%
SD 0%									
*Clitoral/Preputial Gland:									
Squamous Cell Carcinoma									
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/46	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/96	(0%)	Mean 0%
SD 0%									
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/46	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/96	(0%)	Mean 0%
SD 0%									
*Epididymis:									
Sarcoma									
		0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/99	(0%)	Mean 0%	SD 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%									

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

Version: Nov2024
 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: PERINATAL AND POSTNATAL
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		Male				Female			
#Harderian Gland:									
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%
.....									
*Heart:									
Schwannoma Malignant									
		2/50	(4%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	0/99	(0%)	Mean 0% SD 0%
.....									
#Intestine Large: Cecum:									
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 Large: Cecum:									
Liposarcoma									
		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%
.....									
#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%
.....									
#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%

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

Version: Nov2024
 Contract/Lab: All Laboratories
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 Strain: Harlan Sprague-Dawley
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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			
#Intestine Small: Any Site: Adenocarcinoma									
		2/50 (4%)	0/50 (0%)			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%	
.....									
#Intestine Small: Any Site: Adenoma or Adenocarcinoma									
		2/50 (4%)	0/50 (0%)			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%	
.....									
#Intestine Small: Any Site: 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: Any Site: Leiomyosarcoma or 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: Adenocarcinoma									
		2/50 (4%)	0/50 (0%)			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%	
.....									
#Intestine Small: Jejunum: 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%	

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 #: Denominator is number of animals necropsied

Version: Nov2024
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#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%	
.....									
*Islets, Pancreatic:									
Adenoma									
		2/50 (4%)	4/50 (8%)		3/49 (6%)	0/49 (0%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 2.83%	Total	3/98 (3.06%)	Mean 3.06%	SD 4.33%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/49 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%	
.....									
*Islets, Pancreatic:									
Carcinoma or Adenoma									
		2/50 (4%)	4/50 (8%)		3/49 (6%)	0/49 (0%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 2.83%	Total	3/98 (3.06%)	Mean 3.06%	SD 4.33%	
.....									
*Kidney: Pelvis and Urothelium:									
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									
		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: Nov2024
 Contract/Lab: All Laboratories
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 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				
*Kidney: Renal Tubule: Carcinoma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
.....										
*Kidney: Renal Tubule: Carcinoma or Adenoma										
Overall Incidence	Total	1/50 (2%)	0/50 (0%)	Mean 1%	SD 1.41%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
.....										
*Kidney: Renal Tubule: Hemangioma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
.....										
*Kidney: Renal Tubule: Lipoma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
.....										
*Kidney: Renal Tubule: Liposarcoma										
Overall Incidence	Total	0/50 (0%)	1/50 (2%)	Mean 1%	SD 1.41%	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%
.....										
*Kidney: Renal Tubule: Oncocytoma Benign										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	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: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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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%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
#Lacrimal Gland:									
Carcinoma									
		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%	
.....									
*Liver:									
Cholangioma									
		0/50 (0%)	0/50 (0%)		1/49 (2%)	1/50 (2%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	
.....									
*Liver:									
Hemangioma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hepatocellular Adenoma									
		0/50 (0%)	1/50 (2%)		1/49 (2%)	1/50 (2%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	
.....									
*Liver:									
Hepatocellular Carcinoma									
		1/50 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/99 (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				
*Liver:										
Hepatocellular Carcinoma or Hepatoblastoma										
		1/50	(2%)	0/50	(0%)		0/49	(0%)	0/50	(0%)
Overall Incidence	Total	1/100 (1%)		Mean	1%	SD	1.41%		Total	0/99 (0%)
				Mean	0%				Mean	0%
									SD	0%
.....										
*Liver:										
Hepatocellular Carcinoma or Hepatocellular Adenoma										
		1/50	(2%)	1/50	(2%)		1/49	(2%)	1/50	(2%)
Overall Incidence	Total	2/100 (2%)		Mean	2%	SD	0%		Total	2/99 (2.02%)
				Mean	2.02%				Mean	2.02%
									SD	0.03%
.....										
*Liver:										
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma										
		1/50	(2%)	1/50	(2%)		1/49	(2%)	1/50	(2%)
Overall Incidence	Total	2/100 (2%)		Mean	2%	SD	0%		Total	2/99 (2.02%)
				Mean	2.02%				Mean	2.02%
									SD	0.03%
.....										
*Lung:										
Alveolar/Bronchiolar Adenoma										
		0/50	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)
Overall Incidence	Total	0/100 (0%)		Mean	0%	SD	0%		Total	0/99 (0%)
				Mean	0%				Mean	0%
									SD	0%
.....										
*Lung:										
Alveolar/Bronchiolar Carcinoma										
		0/50	(0%)	1/50	(2%)		0/49	(0%)	0/50	(0%)
Overall Incidence	Total	1/100 (1%)		Mean	1%	SD	1.41%		Total	0/99 (0%)
				Mean	0%				Mean	0%
									SD	0%
.....										
*Lung:										
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma										
		0/50	(0%)	1/50	(2%)		0/49	(0%)	0/50	(0%)
Overall Incidence	Total	1/100 (1%)		Mean	1%	SD	1.41%		Total	0/99 (0%)
				Mean	0%				Mean	0%
									SD	0%

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		Male				Female			
#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: Adenocarcinoma									
		1/50 (2%)	0/50 (0%)			1/50 (2%)	1/50 (2%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	2/100 (2%)	Mean 2%	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%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%	
.....									
#Mammary Gland: Adenoma or Adenocarcinoma									
		1/50 (2%)	0/50 (0%)			2/50 (4%)	1/50 (2%)		
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	3/100 (3%)	Mean 3%	SD 1.41%	
.....									
#Mammary Gland: Fibroadenoma									
		2/50 (4%)	2/50 (4%)			28/50 (56%)	29/50 (58%)		
Overall Incidence	Total	4/100 (4%)	Mean 4%	SD 0%	Total	57/100 (57%)	Mean 57%	SD 1.41%	

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		Male			Female		
#Mammary Gland:							
Fibroma							
		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:							
Fibroma, Fibroadenoma or Adenoma							
		2/50 (4%)	2/50 (4%)		29/50 (58%)	29/50 (58%)	
Overall Incidence	Total	4/100 (4%)	Mean 4%	SD 0%	Total	58/100 (58%)	Mean 58% SD 0%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma, Adenocarcinoma, or Adenoma							
		3/50 (6%)	2/50 (4%)		30/50 (60%)	30/50 (60%)	
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 1.41%	Total	60/100 (60%)	Mean 60% SD 0%
.....							
#Nerve Trigeminal:							
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%
.....							
#Oral Mucosa:							
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%
.....							
#Oral Mucosa, Tongue, Pharynx, or Gingiva:							
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%

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	Male				Female			
#Oral Mucosa, Tongue, Pharynx, or Gingiva:								
Squamous Cell Carcinoma, Papilloma Squamous, or 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%
.....								
*Ovary:								
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Adenoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Cystadenoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Cystadenoma or Cystadenocarcinoma								
					0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	0/100 (0%)	Mean 0%	SD 0%
.....								
*Ovary:								
Granulosa-Theca Tumor Benign								
					0/50 (0%)	1/50 (2%)		
Overall Incidence					Total	1/100 (1%)	Mean 1%	SD 1.41%

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	Male		Female	
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Benign				
		1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....				
*Ovary:				
Granulosa Cell Tumor Malignant				
		1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....				
*Ovary:				
Granulosa Cell Tumor, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)				
		2/50 (4%)	0/50 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		2/50 (4%)	0/50 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%
.....				
*Ovary:				
Luteoma				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				

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Male					Female									
*Ovary:														
Schwannoma Malignant														
					0/50	(0%)	0/50	(0%)						
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD	0%			
.....														
*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%			
.....														
*Pancreas:														
Adenocarcinoma														
		0/50	(0%)	0/50	(0%)			0/49	(0%)	0/49	(0%)			
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/98	(0%)	Mean	0%	SD	0%
.....														
*Pancreas:														
Adenoma														
		10/50	(20%)	9/50	(18%)			0/49	(0%)	0/49	(0%)			
Overall Incidence	Total	19/100	(19%)	Mean	19%	SD	1.41%	Total	0/98	(0%)	Mean	0%	SD	0%
.....														
*Pancreas:														
Adenoma or Adenocarcinoma														
		10/50	(20%)	9/50	(18%)			0/49	(0%)	0/49	(0%)			
Overall Incidence	Total	19/100	(19%)	Mean	19%	SD	1.41%	Total	0/98	(0%)	Mean	0%	SD	0%

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		Male				Female			
*Parathyroid Gland:									
Adenoma									
		0/42	(0%)	0/49	(0%)	0/42	(0%)	0/44	(0%)
Overall Incidence	Total	0/91	(0%)	Mean 0%	SD 0%	Total	0/86	(0%)	Mean 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%
.....									
#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%
.....									
#Pharynx:									
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%
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		4/50	(8%)	7/50	(14%)	15/49	(31%)	11/50	(22%)
Overall Incidence	Total	11/100	(11%)	Mean 11%	SD 4.24%	Total	26/99	(26.26%)	Mean 26.31%
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	1/99	(1.01%)	Mean 1.02%

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		Male				Female			
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma									
		4/50 (8%)	7/50 (14%)		16/49 (33%)	11/50 (22%)			
Overall Incidence	Total	11/100 (11%)	Mean 11%	SD 4.24%	Total	27/99 (27.27%)	Mean 27.33%	SD 7.53%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site: Schwannoma Malignant									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Intermedia: Adenoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Pituitary Gland: Pars Nervosa: Schwannoma Malignant									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Prostate: Adenoma									
		0/50 (0%)	0/50 (0%)						
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%					

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		Male				Female			
*Prostate:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%				
.....									
*Salivary Glands:									
Schwannoma Malignant									
		2/50	(4%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	0/99	(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:									
Fibrosarcoma									
		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:									
Hemangioma									
		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%
.....									
#Skeletal Muscle:									
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%

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		Male				Female					
#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											
		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:											
Basal Cell 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:											
Basal 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:											
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma											
		4/50	(8%)	3/50	(6%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	7/100	(7%)	Mean 7%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#Skin:											
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma											
		1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	

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	Male				Female			
#Skin:								
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland Adenoma								
		3/50 (6%)	3/50 (6%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Skin:								
Fibroma								
		3/50 (6%)	4/50 (8%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	7/100 (7%)	Mean 7%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Skin:								
Fibroma or Myxoma								
		3/50 (6%)	4/50 (8%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	7/100 (7%)	Mean 7%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		3/50 (6%)	4/50 (8%)		1/50 (2%)	2/50 (4%)		
Overall Incidence	Total	7/100 (7%)	Mean 7%	SD 1.41%	Total	3/100 (3%)	Mean 3%	SD 1.41%
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Pleomorphic Fibrosarcoma, or Hemangiopericytoma								
		3/50 (6%)	4/50 (8%)		1/50 (2%)	2/50 (4%)		
Overall Incidence	Total	7/100 (7%)	Mean 7%	SD 1.41%	Total	3/100 (3%)	Mean 3%	SD 1.41%
#Skin:								
Fibrosarcoma								
		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: Nov2024
 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:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		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%
.....								
#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%
.....								
#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:								
Keratoacanthoma								
		2/50 (4%)	2/50 (4%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	4/100 (4%)	Mean 4%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Lipoma								
		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%
.....								
#Skin:								
Liposarcoma								
		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: Nov2024
 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: 11/07/2024

	Male				Female			
#Skin:								
Neurofibrosarcoma or Schwannoma (malignant or NOS)								
		2/50 (4%)	0/50 (0%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#Skin:								
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)								
		2/50 (4%)	0/50 (0%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#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:								
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%
.....								
#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:								
Pleomorphic Fibrosarcoma								
		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: Nov2024
 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:											
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:											
Schwannoma Malignant											
		2/50	(4%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#Skin:											
Squamous Cell Carcinoma											
		1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#Skin:											
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma											
		1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%	SD 1.41%	
.....											
#Skin:											
Squamous Cell Papilloma											
		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%	
.....											
#Skin:											
Squamous Cell Papilloma 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%	Total	0/100	(0%)	Mean 0%	SD 0%	

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

Version: Nov2024
 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:								
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma								
		2/50 (4%)	3/50 (6%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma								
		3/50 (6%)	3/50 (6%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
.....								
#Skin:								
Trichoepithelioma								
		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: 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%
.....								
*Spleen:								
Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)		1/49 (2%)	0/49 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/98 (1.02%)	Mean 1.02%	SD 1.44%
.....								
#Stomach, Forestomach:								
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%

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

Version: Nov2024
 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		
#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%
.....							
#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%
.....							
#Stomach, Glandular:							
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%
.....							
*Testis:							
Adenoma							
		3/49 (6%)	0/50 (0%)				
Overall Incidence	Total	3/99 (3.03%)	Mean 3.06%	SD 4.33%			
.....							
*Thymus:							
Schwannoma Malignant							
		0/47 (0%)	0/49 (0%)		0/46 (0%)	0/50 (0%)	
Overall Incidence	Total	0/96 (0%)	Mean 0%	SD 0%	Total	0/96 (0%)	Mean 0% SD 0%

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

Version: Nov2024
 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			
*Thymus:									
Thymoma Benign									
		0/47	(0%)	0/49	(0%)	0/46	(0%)	0/50	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%
									SD 0%
*Thymus:									
Thymoma Malignant									
		0/47	(0%)	0/49	(0%)	0/46	(0%)	0/50	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%
									SD 0%
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/47	(0%)	0/49	(0%)	0/46	(0%)	0/50	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0%
									SD 0%
*Thyroid Gland: C-Cell:									
Adenoma									
		10/50	(20%)	9/50	(18%)	8/49	(16%)	10/50	(20%)
Overall Incidence	Total	19/100	(19%)	Mean 19%	SD 1.41%	Total	18/99	(18.18%)	Mean 18.16%
									SD 2.6%
*Thyroid Gland: C-Cell:									
Carcinoma									
		1/50	(2%)	0/50	(0%)	0/49	(0%)	2/50	(4%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	2/99	(2.02%)	Mean 2%
									SD 2.83%
*Thyroid Gland: C-Cell:									
Carcinoma or Adenoma									
		10/50	(20%)	9/50	(18%)	8/49	(16%)	12/50	(24%)
Overall Incidence	Total	19/100	(19%)	Mean 19%	SD 1.41%	Total	20/99	(20.2%)	Mean 20.16%
									SD 5.43%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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			
*Thyroid Gland: Follicular Cell: Adenoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	
.....									
#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: Fibrosarcoma									
		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: 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%	

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

Version: Nov2024
 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%)	0/50	(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%)	0/50	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/100	(0%)	Mean 0% SD 0%
.....									
*Uterus:									
Adenocarcinoma									
						3/50	(6%)	3/50	(6%)
Overall Incidence						Total	6/100	(6%)	Mean 6% SD 0%
.....									
*Uterus:									
Adenocarcinoma or Adenoma									
						3/50	(6%)	3/50	(6%)
Overall Incidence						Total	6/100	(6%)	Mean 6% SD 0%
.....									

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

Version: Nov2024
 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:		
Adenoma		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
*Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
	3/50 (6%)	3/50 (6%)
Overall Incidence	Total 6/100 (6%)	Mean 6% SD 0%
*Uterus:		
Deciduoma Benign		
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 1/100 (1%)	Mean 1% SD 1.41%
*Uterus:		
Granular Cell Tumor Benign		
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 1/100 (1%)	Mean 1% SD 1.41%
*Uterus:		
Hemangioma		
	0/50 (0%)	1/50 (2%)
Overall Incidence	Total 1/100 (1%)	Mean 1% SD 1.41%
*Uterus:		
Polyp Stromal		
	8/50 (16%)	5/50 (10%)
Overall Incidence	Total 13/100 (13%)	Mean 13% SD 4.24%

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

Version: Nov2024
 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		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal or Polyp Stromal		
	8/50 (16%)	5/50 (10%)
Overall Incidence	Total 13/100 (13%)	Mean 13% SD 4.24%
.....		
*Uterus:		
Schwannoma Malignant		
	1/50 (2%)	0/50 (0%)
Overall Incidence	Total 1/100 (1%)	Mean 1% SD 1.41%
.....		
*Uterus:		
Sq Cell Carcinoma or Papilloma Squamous		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Squamous Cell Carcinoma		
	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: Nov2024
 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:													
Squamous Cell Papilloma													
					0/50	(0%)	0/50	(0%)					
Overall Incidence					Total	0/100 (0%)	Mean	0%	SD	0%			
.....													
#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%)	1/50	(2%)					
Overall Incidence					Total	1/100 (1%)	Mean	1%	SD	1.41%			
.....													
#Vagina:													
Schwannoma Malignant													
					1/50	(2%)	0/50	(0%)					
Overall Incidence					Total	1/100 (1%)	Mean	1%	SD	1.41%			
.....													
#Zymbal's Gland:													
Adenoma													
		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: Nov2024

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:														
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma														
		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%
.....														
#Zymbal's Gland:														
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%
.....														

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
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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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
Battelle Columbus Laboratory	051105403	07/05/15	732	50(2)	16(650)	657.1	Sulfolane
Female							
Battelle Columbus Laboratory	050303803	01/31/12	730	50(5)	30(667)	393.3	Sodium Tungstate Dihydrate
Battelle Columbus Laboratory	051105403	07/05/15	734	50(4)	21(670)	438.1	Sulfolane

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

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 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		
#All Organs:							
Benign Tumors							
		29/50 (58%)	29/50 (58%)		39/50 (78%)	43/50 (86%)	
Overall Incidence	Total	58/100 (58%)	Mean 58%	SD 0%	Total	82/100 (82%)	Mean 82% SD 5.66%
.....							
#All Organs:							
Malignant Tumors							
		14/50 (28%)	8/50 (16%)		17/50 (34%)	15/50 (30%)	
Overall Incidence	Total	22/100 (22%)	Mean 22%	SD 8.49%	Total	32/100 (32%)	Mean 32% SD 2.83%
.....							
#All Organs:							
Malignant and Benign Tumors							
		36/50 (72%)	32/50 (64%)		47/50 (94%)	45/50 (90%)	
Overall Incidence	Total	68/100 (68%)	Mean 68%	SD 5.66%	Total	92/100 (92%)	Mean 92% SD 2.83%
.....							
#All Organs:							
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%
.....							
#All Organs:							
Hemangiosarcoma							
		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%
.....							
#All Organs:							
Hemangiosarcoma or Hemangioma							
		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%
.....							

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

Version: Nov2024
 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					
#All Organs:											
Histiocytic Sarcoma											
		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:											
Leukemia: Granulocytic											
		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:											
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated											
		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:											
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, Large Granular, or Undifferentiated Cell Type											
		1/50	(2%)	0/50	(0%)			2/50	(4%)	2/50	(4%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	4/100	(4%)	Mean 4%	SD 0%	
.....											
#All Organs:											
Malignant Schwannoma											
		1/50	(2%)	0/50	(0%)			2/50	(4%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	2/100	(2%)	Mean 2%	SD 2.83%	
.....											
#All Organs:											
Mesothelioma: 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

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 Tumor Incidence for Selected Control Animal Groups
 Route: PERINATAL AND POSTNATAL
 Vehicle: WATER

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		Male			Female		
#All Organs:							
Mesothelioma: 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%
.....							
*Adrenal Cortex:							
Adenoma							
		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%
.....							
*Adrenal Cortex:							
Carcinoma							
		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%
.....							
*Adrenal Cortex:							
Carcinoma or Adenoma							
		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%
.....							
*Adrenal Medulla:							
Ganglioneuroma							
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/99 (0%)	Mean 0% SD 0%
.....							
*Adrenal Medulla:							
Pheochromocytoma Benign							
		10/50 (20%)	10/50 (20%)		1/50 (2%)	1/49 (2%)	
Overall Incidence	Total	20/100 (20%)	Mean 20%	SD 0%	Total	2/99 (2.02%)	Mean 2.02% SD 0.03%

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

Version: Nov2024
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Complex									
		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%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		2/50 (4%)	0/50 (0%)		1/50 (2%)	1/49 (2%)			
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	2/99 (2.02%)	Mean 2.02%	SD 0.03%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		12/50 (24%)	10/50 (20%)		2/50 (4%)	2/49 (4%)			
Overall Incidence	Total	22/100 (22%)	Mean 22%	SD 2.83%	Total	4/99 (4.04%)	Mean 4.04%	SD 0.06%	
.....									
#Bone:									
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%	
.....									
#Bone:									
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%	
.....									
#Bone:									
Osteosarcoma or Osteoma									
		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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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
*Brain:									
Astrocytoma									
		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:									
Glioma									
		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:									
Glioma Malignant									
		2/50	(4%)	0/50	(0%)	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%
.....									
*Brain:									
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%
.....									
*Brain:									
Granular Cell Tumor 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:									
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%

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

Version: Nov2024
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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			
*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%
.....									
*Brain:									
Oligodendroglioma 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%
.....									
*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		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%
.....									
*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:									
Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/98	(0%)	Mean 0% SD 0%
.....									

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

Version: Nov2024
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 Species: RATS
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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:									
Adenoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/98	(0%)	Mean 0%
.....									
*Clitoral/Preputial Gland:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/98	(0%)	Mean 0%
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Carcinoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/98	(0%)	Mean 0%
.....									
*Clitoral/Preputial Gland:									
Squamous Cell Papilloma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/98	(0%)	Mean 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%

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

Version: Nov2024
 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			
#Harderian Gland:									
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%
.....									
*Heart:									
Schwannoma Malignant									
		0/50	(0%)	0/50	(0%)	2/50	(4%)	0/49	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	2/99	(2.02%)	Mean 2%
									SD 2.83%
.....									
#Intestine Large: Cecum:									
Leiomyosarcoma									
		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%
.....									
#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%
.....									
#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%

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

Version: Nov2024
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#Intestine Small: Any Site: Adenocarcinoma									
		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%
.....									
#Intestine Small: Any Site: Adenoma or Adenocarcinoma									
		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%
.....									
#Intestine Small: Any Site: 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: Any Site: Leiomyosarcoma or 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: Adenocarcinoma									
		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%
.....									
#Intestine Small: Jejunum: 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%

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

Version: Nov2024
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#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%	
.....									
*Islets, Pancreatic:									
Adenoma									
		2/50 (4%)	3/50 (6%)		1/50 (2%)	0/48 (0%)			
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 1.41%	Total	1/98 (1.02%)	Mean 1%	SD 1.41%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		1/50 (2%)	0/50 (0%)		1/50 (2%)	0/48 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	1/98 (1.02%)	Mean 1%	SD 1.41%	
.....									
*Islets, Pancreatic:									
Carcinoma or Adenoma									
		3/50 (6%)	3/50 (6%)		2/50 (4%)	0/48 (0%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 0%	Total	2/98 (2.04%)	Mean 2%	SD 2.83%	
.....									
*Kidney: Pelvis and Urothelium:									
Papilloma									
		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%	
.....									
*Kidney: Renal Tubule:									
Adenoma									
		2/50 (4%)	1/50 (2%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	3/100 (3%)	Mean 3%	SD 1.41%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									

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

Version: Nov2024
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 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				
*Kidney: Renal Tubule: Carcinoma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		0/100 (0%)					0/99 (0%)			
*Kidney: Renal Tubule: Carcinoma or Adenoma										
Overall Incidence	Total	2/50 (4%)	1/50 (2%)	Mean 3%	SD 1.41%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		3/100 (3%)					0/99 (0%)			
*Kidney: Renal Tubule: Hemangioma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		0/100 (0%)					0/99 (0%)			
*Kidney: Renal Tubule: Lipoma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		0/100 (0%)					0/99 (0%)			
*Kidney: Renal Tubule: Liposarcoma										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		0/100 (0%)					0/99 (0%)			
*Kidney: Renal Tubule: Oncocytoma Benign										
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	0/49 (0%)	Mean 0%	SD 0%
		0/100 (0%)					0/99 (0%)			

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

Version: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
		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%	
.....									
#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%	Total	0/100 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Cholangioma									
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/99 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hemangioma									
		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%	
.....									
*Liver:									
Hepatocellular Adenoma									
		1/50 (2%)	0/50 (0%)		1/50 (2%)	0/49 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	
.....									
*Liver:									
Hepatocellular Carcinoma									
		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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Version: Nov2024
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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	Male					Female				
*Liver:										
Hepatocellular Carcinoma or Hepatoblastoma										
		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%
.....										
*Liver:										
Hepatocellular Carcinoma or Hepatocellular Adenoma										
		1/50	(2%)	0/50	(0%)		1/50	(2%)	0/49	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/99	(1.01%)	Mean 1%	SD 1.41%
.....										
*Liver:										
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma										
		1/50	(2%)	0/50	(0%)		1/50	(2%)	0/49	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/99	(1.01%)	Mean 1%	SD 1.41%
.....										
*Lung:										
Alveolar/Bronchiolar Adenoma										
		1/50	(2%)	0/50	(0%)		0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/99	(0%)	Mean 0%	SD 0%
.....										
*Lung:										
Alveolar/Bronchiolar Carcinoma										
		1/50	(2%)	0/50	(0%)		0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/99	(0%)	Mean 0%	SD 0%
.....										
*Lung:										
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma										
		2/50	(4%)	0/50	(0%)		0/50	(0%)	0/49	(0%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	0/99	(0%)	Mean 0%	SD 0%

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 #: Denominator is number of animals necropsied

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		Male				Female			
#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: Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	2/50	(4%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	3/100	(3%)	Mean 3%
									SD 1.41%
#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%)	3/50	(6%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	4/100	(4%)	Mean 4%
									SD 2.83%
#Mammary Gland: Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	5/50	(10%)	2/50	(4%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	7/100	(7%)	Mean 7%
									SD 4.24%
#Mammary Gland: Fibroadenoma									
		0/50	(0%)	2/50	(4%)	30/50	(60%)	32/50	(64%)
Overall Incidence	Total	2/100	(2%)	Mean 2%	SD 2.83%	Total	62/100	(62%)	Mean 62%
									SD 2.83%

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		Male			Female		
#Mammary Gland:							
Fibroma							
		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%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma or Adenoma							
		0/50 (0%)	2/50 (4%)		32/50 (64%)	33/50 (66%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	65/100 (65%)	Mean 65% SD 1.41%
.....							
#Mammary Gland:							
Fibroma, Fibroadenoma, Adenocarcinoma, or Adenoma							
		0/50 (0%)	2/50 (4%)		34/50 (68%)	33/50 (66%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	67/100 (67%)	Mean 67% SD 1.41%
.....							
#Nerve Trigeminal:							
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%
.....							
#Oral Mucosa:							
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%
.....							
#Oral Mucosa, Tongue, Pharynx, or Gingiva:							
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%

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 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#Oral Mucosa, Tongue, Pharynx, or Gingiva:								
Squamous Cell Carcinoma, Papilloma Squamous, or 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%
.....								
*Ovary:								
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma								
					0/50 (0%)	0/48 (0%)		
Overall Incidence	Total				0/98 (0%)	Mean 0%		SD 0%
.....								
*Ovary:								
Adenoma								
					0/50 (0%)	0/48 (0%)		
Overall Incidence	Total				0/98 (0%)	Mean 0%		SD 0%
.....								
*Ovary:								
Cystadenoma								
					0/50 (0%)	0/48 (0%)		
Overall Incidence	Total				0/98 (0%)	Mean 0%		SD 0%
.....								
*Ovary:								
Cystadenoma or Cystadenocarcinoma								
					0/50 (0%)	0/48 (0%)		
Overall Incidence	Total				0/98 (0%)	Mean 0%		SD 0%
.....								
*Ovary:								
Granulosa-Theca Tumor Benign								
					0/50 (0%)	0/48 (0%)		
Overall Incidence	Total				0/98 (0%)	Mean 0%		SD 0%

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	Male	Female
*Ovary:		
Granulosa-Theca Tumor Malignant		
	1/50 (2%)	0/48 (0%)
Overall Incidence	Total 1/98 (1.02%)	Mean 1% SD 1.41%
.....		
*Ovary:		
Granulosa Cell Tumor Benign		
	0/50 (0%)	0/48 (0%)
Overall Incidence	Total 0/98 (0%)	Mean 0% SD 0%
.....		
*Ovary:		
Granulosa Cell Tumor Malignant		
	1/50 (2%)	0/48 (0%)
Overall Incidence	Total 1/98 (1.02%)	Mean 1% SD 1.41%
.....		
*Ovary:		
Granulosa Cell Tumor, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)		
	1/50 (2%)	0/48 (0%)
Overall Incidence	Total 1/98 (1.02%)	Mean 1% SD 1.41%
.....		
*Ovary:		
Granulosa Cell Tumor: Benign, Malignant, NOS		
	1/50 (2%)	0/48 (0%)
Overall Incidence	Total 1/98 (1.02%)	Mean 1% SD 1.41%
.....		
*Ovary:		
Luteoma		
	0/50 (0%)	0/48 (0%)
Overall Incidence	Total 0/98 (0%)	Mean 0% SD 0%
.....		

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Male					Female										
*Ovary:															
Schwannoma Malignant															
					0/50	(0%)			0/48	(0%)					
Overall Incidence					Total	0/98	(0%)	Mean	0%	SD 0%					
.....															
*Ovary:															
Sertoli Cell Tumor Benign															
					0/50	(0%)			0/48	(0%)					
Overall Incidence					Total	0/98	(0%)	Mean	0%	SD 0%					
.....															
*Ovary:															
Thecoma Benign															
					0/50	(0%)			0/48	(0%)					
Overall Incidence					Total	0/98	(0%)	Mean	0%	SD 0%					
.....															
*Pancreas:															
Adenocarcinoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/48	(0%)				
Overall Incidence		Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/98	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Adenoma															
		14/50	(28%)	4/50	(8%)			0/50	(0%)	0/48	(0%)				
Overall Incidence		Total	18/100	(18%)	Mean	18%	SD	14.14%	Total	0/98	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Adenoma or Adenocarcinoma															
		14/50	(28%)	4/50	(8%)			0/50	(0%)	0/48	(0%)				
Overall Incidence		Total	18/100	(18%)	Mean	18%	SD	14.14%	Total	0/98	(0%)	Mean	0%	SD	0%

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		Male				Female			
*Parathyroid Gland:									
Adenoma									
		0/43	(0%)	0/44	(0%)	0/46	(0%)	1/43	(2%)
Overall Incidence	Total	0/87	(0%)	Mean 0%	SD 0%	Total	1/89	(1.12%)	Mean 1.16%
									SD 1.64%
#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%
#Pharynx:									
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%
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		8/50	(16%)	9/50	(18%)	16/50	(32%)	14/50	(28%)
Overall Incidence	Total	17/100	(17%)	Mean 17%	SD 1.41%	Total	30/100	(30%)	Mean 30%
									SD 2.83%
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	1/100	(1%)	Mean 1%
									SD 1.41%

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		Male			Female		
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma							
		9/50 (18%)	9/50 (18%)		17/50 (34%)	14/50 (28%)	
Overall Incidence	Total	18/100 (18%)	Mean 18%	SD 0%	Total	31/100 (31%)	Mean 31% SD 4.24%
.....							
*Pituitary Gland: Pars Distalis or Unspecified Site: 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%
.....							
*Pituitary Gland: Pars Intermedia: Adenoma							
		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%
.....							
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma							
		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%
.....							
*Pituitary Gland: Pars Nervosa: Schwannoma 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%
.....							
*Prostate: Adenoma							
		0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%			

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		Male				Female			
*Prostate:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%				
.....									
*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									
		1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%				
.....									
#Skeletal Muscle:									
Fibrosarcoma									
		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:									
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:									
Hemangiosarcoma									
		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%

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 #: Denominator is number of animals necropsied

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		Male				Female			
#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%	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%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Skin:									
Basal Cell Adenoma									
		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%
.....									
#Skin:									
Basal Cell 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%
.....									
#Skin:									
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma									
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	0/100	(0%)	Mean 0%	SD 0%
.....									
#Skin:									
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma									
		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%

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#: Denominator is number of animals necropsied

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	Male				Female			
#Skin:								
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland Adenoma								
		1/50 (2%)	3/50 (6%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	4/100 (4%)	Mean 4%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%
#Skin:								
Fibroma								
		3/50 (6%)	2/50 (4%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Skin:								
Fibroma or Myxoma								
		3/50 (6%)	2/50 (4%)		1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 1.41%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		3/50 (6%)	3/50 (6%)		2/50 (4%)	1/50 (2%)		
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 0%	Total	3/100 (3%)	Mean 3%	SD 1.41%
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Pleomorphic Fibrosarcoma, or Hemangiopericytoma								
		3/50 (6%)	3/50 (6%)		3/50 (6%)	1/50 (2%)		
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 0%	Total	4/100 (4%)	Mean 4%	SD 2.83%
#Skin:								
Fibrosarcoma								
		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: Nov2024
 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: 11/07/2024

	Male					Female					
#Skin:											
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic Fibrosarcoma											
		0/50	(0%)	1/50	(2%)			1/50	(2%)	1/50	(2%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	2/100	(2%)	Mean 2%	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%	
.....											
#Skin:											
Hemangiopericytoma											
		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%	
.....											
#Skin:											
Keratoacanthoma											
		1/50	(2%)	3/50	(6%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/100	(4%)	Mean 4%	SD 2.83%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
Lipoma											
		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:											
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%	

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

Version: Nov2024
 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: 11/07/2024

	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%)		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%
.....								
#Skin:								
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%
.....								
#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:								
Pleomorphic Fibrosarcoma								
		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: Nov2024
 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:											
Sarcoma											
		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%	
.....											
#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%	
.....											
#Skin:											
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%	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%)	0/50	(0%)
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Skin:											
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%	
.....											
#Skin:											
Squamous Cell Papilloma or 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%	

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

Version: Nov2024
 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 Papilloma, Papilloma, or Keratoacanthoma								
		1/50 (2%)	3/50 (6%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	4/100 (4%)	Mean 4%	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:								
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%
.....								
*Spleen:								
Hemangiosarcoma								
		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%
.....								
#Stomach, Forestomach:								
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%

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

Version: Nov2024
 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:							
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%
.....							
#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%
.....							
#Stomach, Glandular:							
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%
.....							
*Testis:							
Adenoma							
		1/50 (2%)	0/50 (0%)				
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%			
.....							
*Thymus:							
Schwannoma Malignant							
		0/48 (0%)	0/48 (0%)		0/47 (0%)	0/43 (0%)	
Overall Incidence	Total	0/96 (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: Nov2024
 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: 11/07/2024

		Male				Female			
*Thymus:									
Thymoma Benign									
		0/48	(0%)	0/48	(0%)	0/47	(0%)	0/43	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0%
.....									
*Thymus:									
Thymoma Malignant									
		0/48	(0%)	0/48	(0%)	0/47	(0%)	0/43	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0%
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/48	(0%)	0/48	(0%)	0/47	(0%)	0/43	(0%)
Overall Incidence	Total	0/96	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0%
.....									
*Thyroid Gland: C-Cell:									
Adenoma									
		4/50	(8%)	8/50	(16%)	5/50	(10%)	6/50	(12%)
Overall Incidence	Total	12/100	(12%)	Mean 12%	SD 5.66%	Total	11/100	(11%)	Mean 11%
.....									
*Thyroid Gland: C-Cell:									
Carcinoma									
		0/50	(0%)	0/50	(0%)	2/50	(4%)	1/50	(2%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	3/100	(3%)	Mean 3%
.....									
*Thyroid Gland: C-Cell:									
Carcinoma or Adenoma									
		4/50	(8%)	8/50	(16%)	7/50	(14%)	7/50	(14%)
Overall Incidence	Total	12/100	(12%)	Mean 12%	SD 5.66%	Total	14/100	(14%)	Mean 14%

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

Version: Nov2024
 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: Adenoma											
		0/50	(0%)	0/45	(0%)			0/50	(0%)	0/45	(0%)
Overall Incidence	Total	0/95	(0%)	Mean 0%	SD 0%	Total	0/95	(0%)	Mean 0%	SD 0%	
.....											
*Thyroid Gland: Follicular Cell: Carcinoma											
		0/50	(0%)	0/45	(0%)			0/50	(0%)	0/45	(0%)
Overall Incidence	Total	0/95	(0%)	Mean 0%	SD 0%	Total	0/95	(0%)	Mean 0%	SD 0%	
.....											
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma											
		0/50	(0%)	0/45	(0%)			0/50	(0%)	0/45	(0%)
Overall Incidence	Total	0/95	(0%)	Mean 0%	SD 0%	Total	0/95	(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: Fibrosarcoma											
		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: 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%	

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

Version: Nov2024
 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: 11/07/2024

		Male				Female			
#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%)	0/46	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	Total	0/96	(0%)	Mean 0% SD 0%
.....									
*Uterus:									
Adenocarcinoma									
						3/50	(6%)	5/49	(10%)
Overall Incidence						Total	8/99	(8.08%)	Mean 8.1% SD 2.97%
.....									
*Uterus:									
Adenocarcinoma or Adenoma									
						3/50	(6%)	5/49	(10%)
Overall Incidence						Total	8/99	(8.08%)	Mean 8.1% SD 2.97%

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

Version: Nov2024
 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: 11/07/2024

	Male	Female
*Uterus:		
Adenoma		
	0/50 (0%)	0/49 (0%)
Overall Incidence	Total 0/99 (0%)	Mean 0% SD 0%
*Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
	5/50 (10%)	7/49 (14%)
Overall Incidence	Total 12/99 (12.12%)	Mean 12.14% SD 3.03%
*Uterus:		
Deciduoma Benign		
	0/50 (0%)	0/49 (0%)
Overall Incidence	Total 0/99 (0%)	Mean 0% SD 0%
*Uterus:		
Granular Cell Tumor Benign		
	0/50 (0%)	1/49 (2%)
Overall Incidence	Total 1/99 (1.01%)	Mean 1.02% SD 1.44%
*Uterus:		
Hemangioma		
	0/50 (0%)	0/49 (0%)
Overall Incidence	Total 0/99 (0%)	Mean 0% SD 0%
*Uterus:		
Polyp Stromal		
	5/50 (10%)	4/49 (8%)
Overall Incidence	Total 9/99 (9.09%)	Mean 9.08% SD 1.3%

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

Version: Nov2024
 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:		
Sarcoma		
Overall Incidence	Total 0/50 (0%)	0/49 (0%) Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal		
Overall Incidence	Total 1/50 (2%)	0/49 (0%) Mean 1% SD 1.41%
.....		
*Uterus:		
Sarcoma Stromal or Polyp Stromal		
Overall Incidence	Total 6/50 (12%)	4/49 (8%) Mean 10.08% SD 2.71%
.....		
*Uterus:		
Schwannoma Malignant		
Overall Incidence	Total 0/50 (0%)	1/49 (2%) Mean 1.02% SD 1.44%
.....		
*Uterus:		
Sq Cell Carcinoma or Papilloma Squamous		
Overall Incidence	Total 2/50 (4%)	2/49 (4%) Mean 4.04% SD 0.06%
.....		
*Uterus:		
Squamous Cell Carcinoma		
Overall Incidence	Total 2/50 (4%)	2/49 (4%) Mean 4.04% SD 0.06%

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

Version: Nov2024
 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: 11/07/2024

Male					Female							
*Uterus:												
Squamous Cell Papilloma												
					0/50	(0%)	0/49	(0%)				
Overall Incidence					Total	0/99	(0%)	Mean	0%	SD 0%		
.....												
#Vagina:												
Granular Cell Tumor Benign												
					0/50	(0%)	0/47	(0%)				
Overall Incidence					Total	0/97	(0%)	Mean	0%	SD 0%		
.....												
#Vagina:												
Polyp												
					1/50	(2%)	0/47	(0%)				
Overall Incidence					Total	1/97	(1.03%)	Mean	1%	SD 1.41%		
.....												
#Vagina:												
Sarcoma												
					0/50	(0%)	0/47	(0%)				
Overall Incidence					Total	0/97	(0%)	Mean	0%	SD 0%		
.....												
#Vagina:												
Schwannoma Malignant												
					0/50	(0%)	0/47	(0%)				
Overall Incidence					Total	0/97	(0%)	Mean	0%	SD 0%		
.....												
#Zymbal's Gland:												
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%
.....												

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

Version: Nov2024

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: 11/07/2024

	Male				Female			
#Zymbal's Gland:								
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma								
		1/50 (2%)	3/50 (6%)		0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	4/100 (4%)	Mean 4%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%
.....								
#Zymbal's Gland:								
Carcinoma								
		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%
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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: 11/07/2024

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

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

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 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: Nov2024
 Contract/Lab: All Laboratories
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
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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, Large Granular, 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

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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%	
.....									
*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 Cortex:									
Carcinoma or Adenoma									
		0/50 (0%)	1/50 (2%)		2/50 (4%)	3/50 (6%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	5/100 (5%)	Mean 5%	SD 1.41%	
.....									
*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%	
.....									
*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%	

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 #: Denominator is number of animals necropsied

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		Male				Female			
*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:									
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%	
.....									
#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

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		Male				Female			
*Brain:									
Astrocytoma									
		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%
.....									
*Brain:									
Glioma									
		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%
.....									
*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%	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%	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%	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%	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			
*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%	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%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Brain:									
Oligodendroglioma Malignant									
		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%
.....									
*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%	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%	0/100	(0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	0/97	(0%)	Mean 0%	SD 0%

*: Denominator is number of animals with tissues examined microscopically
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		Male				Female			
*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%	0/97	(0%)	Mean 0%	SD 0%
.....									
*Clitoral/Preputial Gland:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/48	(0%)
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%	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%	2/97	(2.06%)	Mean 2.06%	SD 0.03%
.....									
*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%	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%	0/100	(0%)	Mean 0%	SD 0%
.....									

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

Version: Nov2024
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 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#Harderian Gland:									
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%
.....									
*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:									
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 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%
.....									
#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%

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

Version: Nov2024
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		Male				Female			
#Intestine Small: Any Site: Adenocarcinoma									
		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: Any Site: Adenoma or Adenocarcinoma									
		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: Any Site: 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: Any Site: Leiomyosarcoma or 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: Adenocarcinoma									
		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: 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%	

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

Version: Nov2024
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		Male				Female			
#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%
.....									
*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 Urothelium:									
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%
.....									

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

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		Male				Female			
*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%	
.....									
*Kidney: Renal Tubule: 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%	
.....									
*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: 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: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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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:									
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%
.....									
*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%	0/100	(0%)	Mean 0%	SD 0%

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

Version: Nov2024
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 Strain: Harlan Sprague-Dawley
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	Male					Female				
*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%
.....										
*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%

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Version: Nov2024
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		Male				Female			
#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:									
Adenocarcinoma									
		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:									
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%
#Mammary Gland:									
Adenoma or Adenocarcinoma									
		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%

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		Male				Female					
#Mammary Gland:											
Fibroma											
		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:											
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, Adenocarcinoma, 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%	
.....											
#Nerve Trigeminal:											
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%	
.....											
#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%	Total	0/100	(0%)	Mean 0%	SD 0%	
.....											
#Oral Mucosa, Tongue, Pharynx, or 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%	Total	0/100	(0%)	Mean 0%	SD 0%	

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	Male					Female					
#Oral Mucosa, Tongue, Pharynx, or 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%	Total	0/100	(0%)	
								Mean	0%	SD	0%
.....											
*Ovary:											
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total						0/100	(0%)	Mean	0%	
										SD	0%
.....											
*Ovary:											
Adenoma											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total						0/100	(0%)	Mean	0%	
										SD	0%
.....											
*Ovary:											
Cystadenoma											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total						0/100	(0%)	Mean	0%	
										SD	0%
.....											
*Ovary:											
Cystadenoma or Cystadenocarcinoma											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total						0/100	(0%)	Mean	0%	
										SD	0%
.....											
*Ovary:											
Granulosa-Theca Tumor Benign											
							0/50	(0%)	0/50	(0%)	
Overall Incidence	Total						0/100	(0%)	Mean	0%	
										SD	0%

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	Male		Female	
*Ovary:				
Granulosa-Theca Tumor Malignant				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Benign				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				
*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, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)				
		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:				
Luteoma				
		0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%
.....				

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Male					Female										
*Ovary:															
Schwannoma Malignant															
					0/50	(0%)			0/50	(0%)					
Overall Incidence					Total	0/100	(0%)	Mean	0%	SD 0%					
.....															
*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%					
.....															
*Pancreas:															
Adenocarcinoma															
		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%
.....															
*Pancreas:															
Adenoma															
		6/50	(12%)	8/50	(16%)			0/50	(0%)						
Overall Incidence		Total	14/100	(14%)	Mean	14%	SD	2.83%	Total	0/100	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Adenoma or Adenocarcinoma															
		7/50	(14%)	8/50	(16%)			0/50	(0%)						
Overall Incidence		Total	15/100	(15%)	Mean	15%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%
.....															

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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%
.....							
#Pharynx:							
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%
.....							
*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%

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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 Distalis or Unspecified Site:								
 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%
.....								
*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%				

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		Male				Female			
*Prostate:									
Adenoma or Adenocarcinoma									
		0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean 0%	SD 0%				
.....									
*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:									
Fibrosarcoma									
		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:									
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:									
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%

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		Male				Female				
#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%
.....										
#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 or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma										
		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%
.....										
#Skin:										
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma										
		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%

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#: Denominator is number of animals necropsied

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	Male				Female			
#Skin:								
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland Adenoma								
		1/50 (2%)	4/50 (8%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	5/100 (5%)	Mean 5%	SD 4.24%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#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 or Myxoma								
		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, or Pleomorphic Fibrosarcoma								
		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, Pleomorphic Fibrosarcoma, 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:								
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%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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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 Vehicle: METHYLCELLULOSE

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	Male				Female			
#Skin:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		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%
.....								
#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:								
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%

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

Version: Nov2024
 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			
#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:								
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%
.....								
#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:								
Pleomorphic Fibrosarcoma								
		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: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female					
#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%	
.....											
#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%	

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

Version: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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	Male				Female			
#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%
.....								
#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:								
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%
.....								
*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:								
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%

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

Version: Nov2024
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 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

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		Male				Female			
#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%
.....									
#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%
.....									
#Stomach, Glandular:									
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%
.....									
*Testis:									
Adenoma									
		1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean 1%	SD 1.41%				
.....									
*Thymus:									
Schwannoma 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: Nov2024
 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: PERINATAL AND POSTNATAL GAVAGE
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		Male			Female		
*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%
.....							
*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%

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

Version: Nov2024
 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: PERINATAL AND POSTNATAL GAVAGE
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		Male				Female					
*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%	
.....											
*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: Fibrosarcoma											
		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: 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%	

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

Version: Nov2024
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 Tumor Incidence for Selected Control Animal Groups
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		Male				Female			
#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%
.....									
*Uterus:									
Adenocarcinoma									
						2/50	(4%)	2/50	(4%)
Overall Incidence						Total	4/100	(4%)	Mean 4% SD 0%
.....									
*Uterus:									
Adenocarcinoma or Adenoma									
						2/50	(4%)	4/50	(8%)
Overall Incidence						Total	6/100	(6%)	Mean 6% SD 2.83%
.....									

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

Version: Nov2024
 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:		
Adenoma		
	0/50 (0%)	2/50 (4%)
Overall Incidence	Total 2/100 (2%)	Mean 2% SD 2.83%
.....		
*Uterus:		
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma		
	4/50 (8%)	4/50 (8%)
Overall Incidence	Total 8/100 (8%)	Mean 8% SD 0%
.....		
*Uterus:		
Deciduoma Benign		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Granular Cell Tumor Benign		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Hemangioma		
	0/50 (0%)	0/50 (0%)
Overall Incidence	Total 0/100 (0%)	Mean 0% SD 0%
.....		
*Uterus:		
Polyp Stromal		
	9/50 (18%)	2/50 (4%)
Overall Incidence	Total 11/100 (11%)	Mean 11% SD 9.9%

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

Version: Nov2024
 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
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	Male	Female
*Uterus:		
Sarcoma		
Overall Incidence	Total 0/50 (0%)	0/50 (0%) Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal		
Overall Incidence	Total 0/50 (0%)	0/50 (0%) Mean 0% SD 0%
.....		
*Uterus:		
Sarcoma Stromal or Polyp Stromal		
Overall Incidence	Total 9/50 (18%)	2/50 (4%) Mean 11% SD 9.9%
.....		
*Uterus:		
Schwannoma Malignant		
Overall Incidence	Total 0/50 (0%)	0/50 (0%) Mean 0% SD 0%
.....		
*Uterus:		
Sq Cell Carcinoma or Papilloma Squamous		
Overall Incidence	Total 2/50 (4%)	0/50 (0%) Mean 2% SD 2.83%
.....		
*Uterus:		
Squamous Cell Carcinoma		
Overall Incidence	Total 1/50 (2%)	0/50 (0%) Mean 1% SD 1.41%

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

Version: Nov2024
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: Harlan Sprague-Dawley
 Length of Study: CHRONIC

Toxicology Data Management System
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				Male					Female	
*Uterus:										
Squamous Cell Papilloma										
				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%	
.....										
#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%)			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: Nov2024

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			
#Zymbal's Gland:								
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma								
		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%
.....								
#Zymbal's Gland:								
Carcinoma								
		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%
.....								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
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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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: Nov2024
 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		
#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: Nov2024
 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: 11/07/2024

		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%)
							Mean 0%
							SD 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%)
							Mean 0%
							SD 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%)
							Mean 0%
							SD 0%
.....							
#All Organs:							
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, Large Granular, 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%)
							Mean 5.56%
							SD 0%
.....							
#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%)
							Mean 4.44%
							SD 0%
.....							
#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%)
							Mean 0%
							SD 0%

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

Version: Nov2024
 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			
#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%
.....								
*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 Cortex:								
Carcinoma or Adenoma								
		1/90 (1%)				2/90 (2%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	2/90 (2.22%)	Mean 2.22%	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%
.....								
*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%

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

Version: Nov2024
 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		
*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:							
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%
.....							
#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: Nov2024
 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:									
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:									
Glioma									
		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:									
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%
.....									

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

Version: Nov2024
 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:									
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%
.....									
*Brain:									
Oligodendroglioma 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:									
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:									
Adenocarcinoma									
		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: Nov2024
 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:									
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:									
Adenoma or Adenocarcinoma									
		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%
.....									
*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%
.....									
*: Denominator is number of animals with tissues examined microscopically									
#: Denominator is number of animals necropsied									

Version: Nov2024
 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			
#Harderian Gland:									
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%
.....									
*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:									
Leiomyosarcoma									
		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%
.....									
#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%)	Mean 0% SD 0%

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

Version: Nov2024
 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		
#Intestine Small: Any Site: Adenocarcinoma							
Overall Incidence	Total	2/90 (2%)	Mean 2.22%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Any Site: Adenoma or Adenocarcinoma							
Overall Incidence	Total	2/90 (2.22%)	Mean 2.22%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Any Site: Leiomyosarcoma							
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Intestine Small: Any Site: Leiomyosarcoma or Leiomyoma							
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11% SD 0%
.....							
#Intestine Small: Jejunum: Adenocarcinoma							
Overall Incidence	Total	2/90 (2.22%)	Mean 2.22%	SD 0%	Total	0/90 (0%)	Mean 0% SD 0%
.....							
#Intestine Small: Jejunum: Leiomyoma							
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: Nov2024
 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			
#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%)	Mean 1.11%	SD 0%
.....								
*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 Urothelium:								
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%

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

Version: Nov2024
 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			
*Kidney: Renal Tubule: Carcinoma								
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	1/90 (1.11%)	Mean 1.11%	SD 0%
.....								
*Kidney: Renal Tubule: Carcinoma or Adenoma								
Overall Incidence	Total	3/90 (3.33%)	Mean 3.33%	SD 0%	Total	2/90 (2.22%)	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: 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: Nov2024
 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			
*Kidney: Renal Tubule:									
Polyp Adenomatous									
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
.....									
#Lacrimal Gland:									
Carcinoma									
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Cholangioma									
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hemangioma									
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Hepatocellular Adenoma									
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	7/90 (7.78%)	Mean 7.78%	SD 0%	
.....									
*Liver:									
Hepatocellular Carcinoma									
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: Nov2024
 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			
*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%)
.....								
*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%)
.....								
*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%)
.....								
*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%)
.....								
*Lung:								
Alveolar/Bronchiolar Carcinoma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
*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%)
.....								

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

Version: Nov2024
 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			
#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:									
Adenocarcinoma									
		0/90	(0%)			10/90	(11%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	10/90	(11.11%)	Mean 11.11% 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%
.....									
#Mammary Gland:									
Adenoma or Adenocarcinoma									
		0/90	(0%)			16/90	(18%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	16/90	(17.78%)	Mean 17.78% SD 0%
.....									
#Mammary Gland:									
Fibroadenoma									
		2/90	(2%)			63/90	(70%)		
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	63/90	(70%)	Mean 70% SD 0%

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

Version: Nov2024
 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			
#Mammary Gland:								
Fibroma								
		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:								
Fibroma, Fibroadenoma or Adenoma								
		2/90	(2%)			64/90	(71%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	64/90 (71.11%)	Mean 71.11% SD 0%
.....								
#Mammary Gland:								
Fibroma, Fibroadenoma, Adenocarcinoma, or Adenoma								
		2/90	(2%)			66/90	(73%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%	Total	66/90 (73.33%)	Mean 73.33% SD 0%
.....								
#Nerve Trigeminal:								
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%
.....								
#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%
.....								
#Oral Mucosa, Tongue, Pharynx, or 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%
.....								

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

Version: Nov2024
 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			
#Oral Mucosa, Tongue, Pharynx, or 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%
.....								
*Ovary:								
Adenocarcinoma, Cystadenoma, or Cystadenocarcinoma								
					1/90 (1%)			
Overall Incidence	Total				1/90 (1.11%)	Mean 1.11%	SD 0%	
.....								
*Ovary:								
Adenoma								
					0/90 (0%)			
Overall Incidence	Total				0/90 (0%)	Mean 0%	SD 0%	
.....								
*Ovary:								
Cystadenoma								
					1/90 (1%)			
Overall Incidence	Total				1/90 (1.11%)	Mean 1.11%	SD 0%	
.....								
*Ovary:								
Cystadenoma or Cystadenocarcinoma								
					1/90 (1%)			
Overall Incidence	Total				1/90 (1.11%)	Mean 1.11%	SD 0%	
.....								
*Ovary:								
Granulosa-Theca Tumor Benign								
					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

Version: Nov2024
 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:				
Granulosa-Theca Tumor Malignant				
		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Benign				
		1/90	(1%)	
Overall Incidence	Total	1/90	(1.11%)	Mean 1.11% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor Malignant				
		2/90	(2%)	
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor, Luteoma, Thecoma, or Sertoli Cell Tumor (Benign, Malignant, NOS)				
		4/90	(4%)	
Overall Incidence	Total	4/90	(4.44%)	Mean 4.44% SD 0%
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS				
		3/90	(3%)	
Overall Incidence	Total	3/90	(3.33%)	Mean 3.33% SD 0%
.....				
*Ovary:				
Luteoma				
		0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0% SD 0%
.....				

*: Denominator is number of animals with tissues examined microscopically
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Version: Nov2024
 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:								
Schwannoma Malignant								
					0/90	(0%)		
Overall Incidence					Total	0/90 (0%)	Mean 0%	SD 0%
.....								
*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%
.....								
*Pancreas:								
Adenocarcinoma								
					1/90	(1%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	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:								
Adenoma or Adenocarcinoma								
					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: Nov2024
 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%
.....							
#Pharynx:							
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%
.....							
*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: Nov2024
 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
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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 Distalis or Unspecified Site:									
 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%
.....									
*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%				

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

Version: Nov2024
 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			
*Prostate:								
Adenoma or Adenocarcinoma								
		2/90	(2%)					
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%			
.....								
*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:								
Fibrosarcoma								
		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:								
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:								
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%
.....								
*: Denominator is number of animals with tissues examined microscopically								
#: Denominator is number of animals necropsied								

Version: Nov2024
 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		
#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%
.....							
#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 or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant or Benign), Basal Cell Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, Adenoma, Carcinoma, Sebaceous Gland Adenoma, or Sebaceous Gland Adenocarcinoma							
		9/90	(10%)		0/90	(0%)	
Overall Incidence	Total	9/90	(10%)	Mean 10%	SD 0%	Total	0/90 (0%)
							Mean 0%
							SD 0%
.....							
#Skin:							
Basal or Squamous Cell Carcinoma, Basosquamous Tumor (Malignant), or Sebaceous Gland Adenocarcinoma							
		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: Nov2024
 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: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Skin:								
Basosquamous Tumor (Benign), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma, or Sebaceous Gland Adenoma								
		9/90 (10%)			0/90 (0%)			
Overall Incidence	Total	9/90 (10%)	Mean 10%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
.....								
#Skin:								
Fibroma								
		2/90 (2%)			2/90 (2%)			
Overall Incidence	Total	2/90 (2.22%)	Mean 2.22%	SD 0%	Total	2/90 (2.22%)	Mean 2.22%	SD 0%
.....								
#Skin:								
Fibroma or Myxoma								
		2/90 (2%)			2/90 (2%)			
Overall Incidence	Total	2/90 (2.22%)	Mean 2.22%	SD 0%	Total	2/90 (2.22%)	Mean 2.22%	SD 0%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		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%
.....								
#Skin:								
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Pleomorphic Fibrosarcoma, or Hemangiopericytoma								
		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%
.....								
#Skin:								
Fibrosarcoma								
		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: Nov2024
 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: Whole Body Exposure
 Vehicle: AIR

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	Male				Female			
#Skin:								
Fibrosarcoma, Sarcoma, Myxosarcoma, or Pleomorphic Fibrosarcoma								
		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%
.....								
#Skin:								
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%
.....								
#Skin:								
Hemangiopericytoma								
		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:								
Keratoacanthoma								
		5/90	(6%)			0/90	(0%)	
Overall Incidence	Total	5/90	(5.56%)	Mean 5.56%	SD 0%	Total	0/90 (0%)	Mean 0% SD 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%)	Mean 0% SD 0%
.....								
#Skin:								
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%

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

Version: Nov2024
 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: Whole Body Exposure
 Vehicle: AIR

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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:								
Papilloma								
		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:								
Pleomorphic Fibrosarcoma								
		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: Nov2024
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 Tumor Incidence for Selected Control Animal Groups
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	Male				Female			
#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%)
.....								
#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%)

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

Version: Nov2024
 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:								
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%)	Mean 0% SD 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%)	Mean 0% SD 0%
.....								
#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%
.....								
*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:								
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%

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

Version: Nov2024
 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				
#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%
.....									
#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%
.....									
#Stomach, Glandular:									
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%
.....									
*Testis:									
Adenoma									
		2/90	(2%)						
Overall Incidence	Total	2/90	(2.22%)	Mean 2.22%	SD 0%				
.....									
*Thymus:									
Schwannoma Malignant									
		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: Nov2024
 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				
*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%
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/88	(0%)		2/87	(2%)			
Overall Incidence	Total	0/88	(0%)	Mean 0%	SD 0%	Total	2/87 (2.3%)	Mean 2.3%	SD 0%
.....									
*Thyroid Gland: C-Cell:									
Adenoma									
		8/89	(9%)		6/90	(7%)			
Overall Incidence	Total	8/89	(8.99%)	Mean 8.99%	SD 0%	Total	6/90 (6.67%)	Mean 6.67%	SD 0%
.....									
*Thyroid Gland: C-Cell:									
Carcinoma									
		2/89	(2%)		0/90	(0%)			
Overall Incidence	Total	2/89	(2.25%)	Mean 2.25%	SD 0%	Total	0/90 (0%)	Mean 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%	SD 0%	Total	6/90 (6.67%)	Mean 6.67%	SD 0%
.....									

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2024
 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: 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%
.....									
*Thyroid Gland: Follicular Cell: 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%
.....									
*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: Fibrosarcoma									
		0/90	(0%)			0/90	(0%)		
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)	Mean 0% SD 0%
.....									
#Tongue: 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%

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

Version: Nov2024
 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			
#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%
.....								
*Uterus:								
Adenocarcinoma								
Overall Incidence								
.....								
*Uterus:								
Adenocarcinoma or Adenoma								
Overall Incidence								
.....								

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

Version: Nov2024
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
*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		
.....		
*Uterus: Hemangioma		
Overall Incidence		
.....		
*Uterus: Polyp Stromal		
Overall Incidence		
.....		

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

Version: Nov2024
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
*Uterus: Sarcoma		
Overall Incidence		
.....		
*Uterus: Sarcoma Stromal		
Overall Incidence		
.....		
*Uterus: Sarcoma Stromal or Polyp Stromal		
Overall Incidence		
.....		
*Uterus: Schwannoma Malignant		
Overall Incidence		
.....		
*Uterus: Sq Cell Carcinoma or Papilloma Squamous		
Overall Incidence		
.....		
*Uterus: Squamous Cell Carcinoma		
Overall Incidence		
.....		

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

Version: Nov2024
 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							
*Uterus:												
Squamous Cell Papilloma												
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%				
.....												
#Vagina:												
Schwannoma Malignant												
Overall Incidence					Total	1/90 (1.11%)	Mean 1.11%	SD 0%				
.....												
#Zymbal's Gland:												
Adenoma												
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: Nov2024

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			
#Zymbal's Gland:								
Adenoma, Adenocarcinoma, Sq Cell Carcinoma, or Sq Cell Papilloma								
		0/90	(0%)			0/90	(0%)	
Overall Incidence	Total	0/90	(0%)	Mean 0%	SD 0%	Total	0/90	(0%)
.....								
#Zymbal's Gland:								
Carcinoma								
		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