

NTP Historical Controls Report

By Route and Vehicle

MICE

November 2019

REPORT DESCRIPTION

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

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

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

Male
M1
M2
M3
M4
M5
Female
Female F1
F1
F1 F2

the data would be shown as:

	Male			Female	
M1	M2	М3	F1	F2	F3
M4	M5		F4	F5	

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

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

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Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 4

Report Date: 11/01/2019

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	052000604	04/03/07	730	50(1)	26(663)	55.6	Indole-3-carbinol
Southern Research Institute	052020904	02/25/08	729	50(1)	29(657)	55.3	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
Battelle Columbus Laboratory	052032004	08/07/07	730	50(1)	33(687)	55.8	Tetrabromobisphenol A
					Female		
Battelle Columbus Laboratory	052000604	04/02/07	729	50(5)	33(702)	66.6	Indole-3-carbinol
Southern Research Institute	052020904	02/25/08	731	50(5)	33(679)	57.7	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
Battelle Columbus Laboratory	052032004	08/06/07	729	50(5)	40(711)	66.5	Tetrabromobisphenol A

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 5

			Male				Female	
All Organs: Benign Tumors		33/50 (66%)	30/50 (60%)	38/50 (76%)		17/50 (34%)	24/50 (489/\	32/50 (64%) SD 4% 1/50 (2%) SD 0% 1/50 (2%) SD 1.15%
Overall Incidence	Total	101/150 (67.33%)	30/50 (60%) Mean 67.33%	SD 8.08%	Total	17/50 (34%) 63/150 (42%)	24/50 (48%) Mean 42%	` ,
All Organs: Malignant Tumors					•••••			
Overall Incidence	Total	27/50 (54%) 75/150 (50%)	27/50 (54%) Mean 50%	21/50 (42%) SD 6.93%	Total	19/50 (38%) 53/150 (35.33%)	16/50 (32%) Mean 35.33%	SD 3.06%
All Organs: Malignant and Benign T								
Overall Incidence	Total	48/50 (96%) 135/150 (90%)	40/50 (80%) Mean 90%	47/50 (94%) SD 8.72%	Total	30/50 (60%) 96/150 (64%)	34/50 (68%) Mean 64%	, ,
All Organs: Hemangioma		0/50 (0%)	0/50 (0%)	2/50 (4%)		1/50 (2%)		
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	3/150 (2%)	Mean 2%	SD 0%
All Organs: Hemangiosarcoma								
Overall Incidence	Total	4/50 (8%) 6/150 (4%)	1/50 (2%) Mean 4%	1/50 (2%) SD 3.46%	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	` ,
All Organs: Hemangiosarcoma or H	emangioma							
Overall Incidence	Total	4/50 (8%) 8/150 (5.33%)	1/50 (2%) Mean 5.33%	3/50 (6%) SD 3.06%	Total	1/50 (2%) 4/150 (2.67%)	1/50 (2%) Mean 2.67%	2/50 (4%) SD 1.15%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page**: 6

			Male				Female	
#All Organs: Histiocytic Sarcoma								
		2/50 (4%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	1/50 (2%)
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 2%	Total	3/150 (2%)	Mean 2%	SD 0%
All Organs: Malignant Lymphoma: Histi	ocytic, Lyn	nphocytic, Mixed, NOS, o	Undifferentiated Cel	I Type				
		3/50 (6%)	5/50 (10%)	3/50 (6%)		6/50 (12%)	7/50 (14%)	9/50 (18%)
Overall Incidence	Total	11/150 (7.33%)	Mean 7.33%	SD 2.31%	Total	22/150 (14.67%)	Mean 14.67%	SD 3.06%
#All Organs: Malignant Schwannoma		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%
All Organs: Osteosarcoma								
		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%
All Organs: Osteosarcoma or Osteoma								
		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%
Adrenal Cortex: Adenoma			(0.5)	(50.)			(00)	2/52 (221)
O	Taral	0/50 (0%)	0/50 (0%)	1/50 (2%)	T-1-1	2/49 (4%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	2/149 (1.34%)	Mean 1.36%	SD 2.36%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 7

			Male				Female	
Adrenal Medulla: Pheochromocytoma Benig	gn							
O	Tatal	0/50 (0%)	1/50 (2%)	0/50 (0%)	Tatal	0/49 (0%)	0/49 (0%)	1/50 (2%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	1/148 (0.68%)	Mean 0.67%	SD 1.15%
Adrenal Medulla: Pheochromocytoma Malig	nant							
_		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%
Adrenal Medulla: Pheochromocytoma: Beni	gn, Complex	ι, Malignant, NOS 0/50 (0%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	0/49 (0%)	1/50 (2%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	1/148 (0.68%)	Mean 0.67%	SD 1.15%
Blood Vessel: Hemangioma		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/30 (0%)	Mean 0%	SD 0%	Total	1/150 (2.67%)	Mean 0.67%	SD 1.15%
Blood Vessel: Hemangiosarcoma								
		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%
Bone Marrow: Hemangiosarcoma								
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%	Total	0/149 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 8

			Male				Female	
Bone Marrow: Mast Cell Tumor Malignant								
		0/50 (0%)	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	0/149 (0%)	Mean 0%	SD 0%
Bone Marrow: Sarcoma								
		0/50 (0%)	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	0/149 (0%)	Mean 0%	SD 0%
Bone: Fibroma								
	-	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%
Bone: Hemangioma		0/50 (00)	2/52 (221)	(20)		0/50 (00)	2/22 (224)	
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
		` '				` ,		
Bone: Hemangiosarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	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%)	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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date: 11/01/2019

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Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

			Male				Female	
#Bone: Osteosarcoma or Osteoma						O/50 (0%) O/50 (0%) O/50 (0%) Total O/150 (0%) Mean 0% SD 0% O/50 (0%) O/50 (0%) O/50 (0%) Total O/150 (0%) Mean 0% SD 0% O/49 (0%) O/49 (0%) O/50 (0%) Total O/148 (0%) Mean 0% SD 0% Total O/50 (0%) O/50 (0%) O/50 (0%) Total O/150 (0%) O/50 (0%) O/50 (0%) O/50 (0%) O/50 (0%) O/50 (0%)		
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0% SD 0%	6) Total		` ,	` ,
Bone: Sarcoma								•••••
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0% SD 0%	6) Total	` '	` '	` '
Clitoral/Preputial Gland: Mast Cell Tumor								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0% SD 0%	6) Total	` '	` ,	` '
Coagulating Gland: Granular Cell Tumor								
overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2% SD 1.15%	%) Total	` '	` '	` '
Coagulating Gland: Sarcoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0% SD 0%	%) Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Epididymis: Mast Cell Tumor								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0% SD 0%	6)			

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 10

			Male				Female	
#Harderian Gland: Adenoma					3/50 (6%) 9/50 (18%) 2/50 (4%) Total 14/150 (9.33%) Mean 9.33% SD 7.57% 0/50 (0%) 1/50 (2%) 1/50 (2%) Total 2/150 (1.33%) Mean 1.33% SD 1.15% 3/50 (6%) 10/50 (20%) 3/50 (6%) Total 16/150 (10.67%) Mean 10.67% SD 8.08%			
		6/50 (12%)	5/50 (10%)	7/50 (14%)		3/50 (6%)	9/50 (18%)	2/50 (4%)
Overall Incidence	Total	18/150 (12%)	Mean 12%	SD 2%	Total	14/150 (9.33%)	Mean 9.33%	SD 7.57%
Harderian Gland: Carcinoma								
		1/50 (2%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	1/50 (2%)
Overall Incidence	Total	3/150 (2%)	Mean 2%	SD 0%	Total	2/150 (1.33%)	Mean 1.33%	SD 1.15%
Harderian Gland: Carcinoma or Adenoma								
		7/50 (14%)	6/50 (12%)	8/50 (16%)		` '	, ,	3/50 (6%)
Overall Incidence	Total	21/150 (14%)	Mean 14%	SD 2%		16/150 (10.67%)	Mean 10.67%	SD 8.08%
Harderian Gland: Mast Cell Tumor								
		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%
Heart: Hemangiosarcoma								
•		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%
Intestine Large: Cecum: Leiomyosarcoma		0/50 (00)	0/50 (00/)	0/50 (00)		4/50 (001)	0/50 /00/	0/50 (00/)
		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

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

Male **Female** #Intestine Small: Duodenum: 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% 1/150 (0.67%) Mean 0.67% SD 1.15% Total #Intestine Small: Duodenum: 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% 0/150 (0%) Mean 0% SD 0% Total #Intestine Small: Duodenum: **Polyp Adenomatous** 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% #Intestine Small: Ileum: Adenoma 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total Mean 0% SD 0% Total 0/150 (0%) Mean 0% SD 0% 0/150 (0%) #Intestine Small: Jejunum: Adenoma 1/50 (2%)0/50 (0%)1/50 (2%)0/50 (0%) 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% #Intestine Small: Jejunum: Carcinoma 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total Mean 0.67% Mean 0% SD 0% 1/150 (0.67%) SD 1.15% Total 0/150 (0%)

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 12

			Male				Female	
#Intestine Small: Jejunum Leiomyosarcoma	n:							
		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%
Intestine Small: Jejunum Mast Cell Tumor	n:							
		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%
#Intestine Small: Site Uns Adenoma	specified:							
		3/50 (6%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	4/150 (2.67%)	Mean 2.67%	SD 3.06%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
Intestine Small: Site Uns Carcinoma	specified:							
		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: Site Uns Carcinoma or Adenoma	•							
		3/50 (6%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	5/150 (3.33%)	Mean 3.33%	SD 3.06%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
Intestine Small: Site Uns Leiomyosarcoma	specified:							
		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 13

			Male				Female					
#Intestine Small: Site Unspecified: Mast Cell Tumor												
		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%				
Intestine Small: Site Unspe Polyp Adenomatous	cified:											
		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%				
Islets, Pancreatic: Adenoma												
		1/50 (2%)	1/50 (2%)	0/50 (0%)		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%				
Islets, Pancreatic: 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%				
'Islets, Pancreatic: Carcinoma or Adenoma												
		1/50 (2%)	1/50 (2%)	0/50 (0%)		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%				
Kidney: Renal Tubule: Adenoma												
		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 14

			Male				Female	
Kidney: Renal Tubule: 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%
Kidney: Renal Tubule: Carcinoma or Adenoma								
		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: Hemangiosarcoma		0/50 /05:	0/50 (00)	0/50 (051)		0/50 /00:	0/50 (00/)	0/50 (00)
Overell Incidence	Tatal	0/50 (0%)	0/50 (0%)	0/50 (0%)	Tatal	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: Mast Cell Tumor								
	-	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: Renal Mesenchymal Tumor								
		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: Cholangiocarcinoma								
		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 15

			Male		Female				
Liver: Hemangioma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)		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%	
Liver: Hemangiosarcoma									
		4/50 (8%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	4/150 (2.67%)	Mean 2.67%	SD 4.62%	Total	0/150 (0%)	Mean 0%	SD 0%	
Liver: Hepatoblastoma		3/50 (6%)	1/50 (2%)	2/50 (4%)		0/50 (09/)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	6/150 (4%)	1/50 (2%) Mean 4%	2/50 (4%) SD 2%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	
·····									
Liver: Hepatocellular Adenoma		20/50 /520/	00/50 (400/)	20/50 (0.40/)		7/50 (4.40/)	F/F0 (400V)	42/50 (200/)	
Overall Incidence	Total	26/50 (52%) 81/150 (54%)	23/50 (46%) Mean 54%	32/50 (64%) SD 9.17%	Total	7/50 (14%) 25/150 (16.67%)	5/50 (10%) Mean 16.67%	13/50 (26%) SD 8.33%	
		` ,				,			
Liver: Hepatocellular Carcinoma									
		12/50 (24%)	18/50 (36%)	11/50 (22%)		6/50 (12%)	4/50 (8%)	2/50 (4%)	
Overall Incidence	Total	41/150 (27.33%)	Mean 27.33%	SD 7.57%	Total	12/150 (8%)	Mean 8%	SD 4%	
Liver: Hepatocellular Carcinoma o	r Hepatobl	lastoma							
		15/50 (30%)	18/50 (36%)	12/50 (24%)		6/50 (12%)	4/50 (8%)	2/50 (4%)	
Overall Incidence	Total	45/150 (30%)	Mean 30%	SD 6%	Total	12/150 (8%)	Mean 8%	SD 4%	

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

			Male				Female					
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma												
		35/50 (70%)	31/50 (62%)	39/50 (78%)		12/50 (24%)	8/50 (16%)	15/50 (30%)				
Overall Incidence	Total	105/150 (70%)	Mean 70%	SD 8%	Total	35/150 (23.33%)	Mean 23.33%	SD 7.02%				
_iver: Hepatocellular Carcino	oma, Hepatocell	lular Adenoma, or Hepatol	olastoma									
·	•	36/50 (72%)	31/50 (62%)	39/50 (78%)		12/50 (24%)	8/50 (16%)	15/50 (30%)				
Overall Incidence	Total	106/150 (70.67%)	Mean 70.67%	SD 8.08%	Total	35/150 (23.33%)	Mean 23.33%	SD 7.02%				
Liver: Hepatocholangiocarcii	noma											
		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: Mast Cell Tumor												
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)				
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%				
Lung: Alveolar/Bronchiolar A	Adenoma											
		4/50 (8%)	5/50 (10%)	6/50 (12%)		1/50 (2%)	1/50 (2%)	5/50 (10%)				
verall Incidence	Total	15/150 (10%)	Mean 10%	SD 2%	Total	7/150 (4.67%)	Mean 4.67%	SD 4.62%				
Lung: Alveolar/Bronchiolar C	Carcinoma	4/50 (621)	5/50 /40°	4/50 (00%)		0/50 /450	0/50 /00/	4/50 (00/)				
	-	4/50 (8%)	5/50 (10%)	4/50 (8%)	-	2/50 (4%)	0/50 (0%)	1/50 (2%)				
Overall Incidence	Total	13/150 (8.67%)	Mean 8.67%	SD 1.15%	Total	3/150 (2%)	Mean 2%	SD 2%				

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 17

			Male				Female				
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma											
		8/50 (16%)	10/50 (20%)	10/50 (20%)		3/50 (6%)	1/50 (2%)	6/50 (12%)			
Overall Incidence	Total	28/150 (18.67%)	Mean 18.67%	SD 2.31%	Total	10/150 (6.67%)	Mean 6.67%	SD 5.03%			
Lung: Hemangiosarcoma											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%			
Lung: Mast Cell Tumor											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%			
Lymph Node: Hemangiosarcoma											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%			
Lymph Node: Mast Cell Tumor											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%			
Lymph Node, Mandibular: Mast Cell Tumor											
		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 18

			Male				Female		
Lymph Node, Mandibular: Mast Cell Tumor 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%	
Lymph Node, Mesenteric: 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%	
Lymph Node, Mesenteric: Hemangiosarcoma									
	T-1-1	0/50 (0%)	0/50 (0%)	0/50 (0%)	T-1-1	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%	
Lymph Node, Mesenteric: Mast Cell Tumor									
Normall Inclinate	Tatal	0/50 (0%)	0/50 (0%)	0/50 (0%)	Tatal	0/50 (0%)	0/50 (0%)	0/50 (0%) SD 0%	
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%	
Lymph Node, Mesenteric: Mast Cell Tumor Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
verall 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%)		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 19

			Male				Female	
#Mammary Gland: Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
Mammary Gland: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
Mammary Gland: Fibroma, Fibroadenoma c	or Adenoma	0/50 /00/	0/50 (09/)	0/50 /09/		0/50 (00/)	0/50 (00/)	0/50 (00/)
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Mammary Gland: Fibroma, Fibroadenoma,		Adenoma						
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
Mesentery: Hemangioma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Mesentery: Hemangiosarcoma		0/50 (00/)	0/50 (00/)	0/50 (00/)		0/50 (00/)	0/50 (00/)	0/50 (00/)
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 20

			Male				Female	
#Mesentery: 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%
#Mesentery: Sarcoma								
		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%
*Nose: Adenoma		0/50 (00/)	0/50 /00/)	0/50 /00/)		0/50 (00/)	0/50 (00/)	0/50 (00)
Overall Incidence	Total	0/50 (0%)	0/50 (0%)	0/50 (0%)	Total	0/50 (0%)	0/50 (0%)	0/50 (0%) SD 0%
	ı olal	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	3D 0%
Nose: Polyp								
		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 Cavity (Oral Mucos) Papilloma Squamous		ynx, Tooth, Gingiva):						
•	-	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%
Oral Cavity (Oral Mucos		ynx, Tooth, Gingiva):						
		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%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System Tumor Incidence for Selected Control Animal Groups

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N Length of Study: CHRONIC

Route: GAVAGE Vehicle: CORN OIL

Report Date: 11/01/2019

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			Male				Female				
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma											
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%)	0/50 (0%)	Total	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%			
#Oral Mucosa: Squamous Cell Carcino	ma										
		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%			
*Ovary: Cystadenocarcinoma						2/52 (221)	(22)	(704)			
Overell Insidense					Total	0/50 (0%)	0/48 (0%)	0/50 (0%) SD 0%			
Overall Incidence					ıotaı	0/148 (0%)	Mean 0%	SD 0%			
*Ovary: Cystadenoma						1/50 (2%)	2/48 (4%)	2/50 (4%)			
Overall Incidence					Total	5/148 (3.38%)	Mean 3.39%	SD 1.21%			
*Ovary: Granulosa Cell Tumor E	Benign										
						0/50 (0%)	1/48 (2%)	0/50 (0%)			
Overall Incidence					Total	1/148 (0.68%)	Mean 0.69%	SD 1.2%			
*Ovary: Granulosa Cell Tumor M	<i>f</i> lalignant										
Overall Incidence					Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%			

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

Contract/Lab: All Laboratories

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Male			Female	
Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS		0/50 (00/)	4/40 (000)	0/50 (00/)
Overall Incidence	Total	0/50 (0%) 1/148 (0.68%)	1/48 (2%) Mean 0.69%	0/50 (0%) SD 1.2%
Ovary: Granulosa-Theca Tumor Malignant				•••••
verall Incidence	Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%
Ovary: Hemangioma				
overall Incidence	Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%
Ovary: Hemangiosarcoma				•••••
overall Incidence	Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%
Ovary: Luteoma				
verall Incidence	Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%
Ovary: Sarcoma				
Overall Incidence	Total	0/50 (0%) 0/148 (0%)	0/48 (0%) Mean 0%	0/50 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 23

			Male				Female	
*Ovary: Thecoma Malignant						0/50 (0%)	0/48 (0%)	0/50 (0%)
Overall Incidence					Total	0/148 (0%)	Mean 0%	SD 0%
*Ovary: Tubulostromal Adenoma								
Overall Incidence					Total	1/50 (2%) 1/148 (0.68%)	0/48 (0%) Mean 0.67%	0/50 (0%) SD 1.15%
*Pancreas: Mast Cell Tumor								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
*Parathyroid Gland: Adenoma								
Overall Incidence	Total	0/48 (0%) 0/141 (0%)	0/48 (0%) Mean 0%	0/45 (0%) SD 0%	Total	0/43 (0%) 0/121 (0%)	0/44 (0%) Mean 0%	0/34 (0%) SD 0%
*Pituitary Gland: Pars Dista Adenoma								
Overall Incidence	Total	0/50 (0%) 0/147 (0%)	0/47 (0%) Mean 0%	0/50 (0%) SD 0%	Total	3/49 (6%) 9/149 (6.04%)	5/50 (10%) Mean 6.04%	1/50 (2%) SD 4%
*Pituitary Gland: Pars Dista Carcinoma		fied Site:						
Overall Incidence	Total	0/50 (0%) 0/147 (0%)	0/47 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/49 (0%) 0/149 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Report Date: 11/01/2019

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			Male				Female	
*Pituitary Gland: Pars Distal Carcinoma or Adenoma	is or Unspeci	fied Site:				·		
		0/50 (0%)	0/47 (0%)	0/50 (0%)		3/49 (6%)	5/50 (10%)	1/50 (2%)
Overall Incidence	Total	0/147 (0%)	Mean 0%	SD 0%	Total	9/149 (6.04%)	Mean 6.04%	SD 4%
*Pituitary Gland: Pars Intern Adenoma	nedia:							
		0/50 (0%)	0/47 (0%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/147 (0%)	Mean 0%	SD 0%	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%
*Pituitary Gland: Pars Intern Carcinoma	nedia:							
		0/50 (0%)	0/47 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/147 (0%)	Mean 0%	SD 0%	Total	0/149 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Interm Carcinoma or Adenoma	nedia:							
		0/50 (0%)	0/47 (0%)	0/50 (0%)		1/49 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/147 (0%)	Mean 0%	SD 0%	Total	1/149 (0.67%)	Mean 0.68%	SD 1.18%
*Pituitary Gland: Pars Intern Schwannoma Malignant								
		0/50 (0%)	0/47 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/147 (0%)	Mean 0%	SD 0%	Total	0/149 (0%)	Mean 0%	SD 0%
*Prostate: Mast Cell Tumor								
		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date: 11/01/2019

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Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

			Male				Female	
*Salivary Glands: Adenoma								
Overall Incidence	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Salivary Glands: Carcinoma						•••••		
overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Salivary Glands: Carcinoma or Adenoma		(472		2(-2)			(201)	(201)
Overall Incidence	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Salivary Glands: Hemangiosarcoma								
verall Incidence	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
alivary Glands: Mast Cell Tumor								
verall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Salivary Glands: Myxosarcoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

			Male					Female	
#Seminal Vesicle: Adenoma					,				
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (SD 0%	(0%)				
·····		` '							
#Seminal Vesicle: Fibroma									
		0/50 (0%)	0/50 (0%)		(0%)				
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%					
#Skeletal Muscle: Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)		(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: Osteosarcoma									
	-	0/50 (0%)	0/50 (0%)		(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: Rhabdomyosarcoma									
		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%
#Skeletal Muscle: Rhabdomyosarcoma or Rh	abdomyoma								
		0/50 (0%)	0/50 (0%)	,	(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%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL Page: 27

			Male				Female	
#Skeletal Muscle: Sarcoma		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Skin: Basal Cell Carcinoma		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/30 (0%)	Mean 0%	SD 0%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
Skin: Basal Cell Carcinoma o	or Basosquamou	s Tumor (malignant or N	•					
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2%) SD 1.15%
Skin:	Basal Cell Adend	oma, Basosquamous Tun						
≴Skin: Basal Cell Carcinoma, NOS), or Trichoepitheli	Basal Cell Adend				Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2%) SD 1.15%
Skin: Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence Skin: Basal or Sq. Cell Carcin	Basal Cell Adendioma Total noma, Carcinom	oma, Basosquamous Tum 0/50 (0%) 0/150 (0%) a, Basosq. Tumor (M or Bratoacanthoma, Trichoep	or (benign, malignal 0/50 (0%) Mean 0% 	0/50 (0%) SD 0%		1/150 (0.67%)	Mean 0.67%	SD 1.15%
Skin: Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, S	Basal Cell Adendioma Total noma, Carcinom	oma, Basosquamous Tum 0/50 (0%) 0/150 (0%)	or (benign, malignal 0/50 (0%) Mean 0% 	0/50 (0%) SD 0%		` '	` '	` '
#Skin: Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence #Skin: Basal or Sq. Cell Carcin	Basal Cell Adendioma Total noma, Carcinom q Papilloma, Ke	oma, Basosquamous Tum 0/50 (0%) 0/150 (0%) a, Basosq. Tumor (M or B ratoacanthoma, Trichoep 0/50 (0%)	0/50 (0%) Mean 0% Neasal Cell Adenon (thelioma 0/50 (0%)	0/50 (0%) SD 0% na,	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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 28
Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

Male **Female** #Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma 1/50 (2%)0/50 1/50 (2%)1/50 (2%)1/50 (2%)1/50 (2%)Overall Incidence Total 2/150 (1.33%) Mean 1.33% SD 1.15% Total 3/150 (2%) Mean 2% SD 0% Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma 1/50 (2%)0/50 (0%)1/50 (2%)1/50 (2%)1/50 (2%)1/50 (2%)Mean 1.33% **Overall Incidence** Total 2/150 (1.33%) SD 1.15% Total 3/150 (2%) Mean 2% SD 0% #Skin: **Fibrosarcoma** 1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)1/50 (2%)1/50 (2%)**Overall Incidence** Total 1/150 (0.67%) Mean 0.67% SD 1.15% Total 2/150 (1.33%) Mean 1.33% SD 1.15% #Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma 1/50 (2%)0/50 (0%)1/50 (2%)1/50 (2%)1/50 (2%)1/50 (2%)Mean 1.33% **Overall Incidence** Total 2/150 (1.33%) SD 1.15% Total 3/150 (2%) Mean 2% SD 0% #Skin: Hemangioma 0/50 (0%)0/50 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% #Skin: Hemangiosarcoma 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% 1/150 (0.67%) Mean 0.67% SD 1.15% Total

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 29

			Male				Female	
#Skin: Keratoacanthoma								
Overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Skin: Lipoma								
Overall Incidence	Total	0/50 (0%) 2/150 (1.33%)	2/50 (4%) Mean 1.33%	0/50 (0%) SD 2.31%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Skin: Liposarcoma		0/50 /00/	0/50 /00/	0/50 /00/		0/50 (00/)	0/50 (00/)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Skin: Malignant Fibrous Histic	ocytoma							
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Skin: Melanoma Benign								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Skin: Neurofibrosarcoma or S	Schwannoma (n	nalignant or NOS) 0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/30 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 30 Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: CORN OIL

Length of Study: CHRONIC

			Male				Female					
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)												
		0/50 (0%)	0/50 (0%)	`	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%				
#Skin: Osteosarcoma												
		0/50 (0%)	0/50 (0%)	0/50 (0	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: Pilomatrixoma												
		0/50 (0%)	0/50 (0%)	0/50 (0	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: Sarcoma												
		0/50 (0%)	0/50 (0%)	1/50 (2	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%				
#Skin: Schwannoma Malignant			•••••									
		0/50 (0%)	0/50 (0%)	0/50 (0	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%				
#Skin: Squamous Cell Carcinom or Carcinoma	a, Basal Cell	Carcinoma, Basosquamo	us Tumor (malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0	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%				

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 31

			Male				Female				
#Skin: Squamous Cell 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%			
Skin: Squamous Cell Papilloma	or Papilloma	1									
	от тариноти	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: Squamous Cell Papilloma,	Papilloma, \$	Squamous Cell Carcinom 0/50 (0%)	a or Keratoacanthom 0/50 (0%)	a 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%			
Skin: Squamous Cell Papilloma,			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%			
Spinal Cord: Schwannoma Malignant											
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
verall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%			
Spleen: Hemangiosarcoma											
	Total	1/50 (2%) 3/150 (2%)	1/50 (2%) Mean 2%	1/50 (2%) SD 0%	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2%) SD 1.15%			
Overall Incidence											

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 32

			Male				Female	
#Stomach, Forestomach: Mast Cell Tumor Malignant								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
						0/130 (0/6)		
#Stomach, Forestomach: Squamous Cell Carcinoma								
Overall Incidence	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma o Overall Incidence	or Papillom Total	2/50 (4%) 9/150 (6%)	2/50 (4%) Mean 6%	5/50 (10%) SD 3.46%	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%
#Stomach, Forestomach: Squamous Cell Papilloma		1/50 (2%)	2/50 (4%)	5/50 (10%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	8/150 (5.33%)	Mean 5.33%	SD 4.16%	Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
Stomach, Glandular: Adenoma								
		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%
Stomach, Glandular: Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Jveran incluence	TUlai	0/130 (0%)	IVIEATI U70	3D 0%	i Olai	0/100 (0%)	IVICALI U70	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 33 Report Date: 11/01/2019

			Male				Female	
#Stomach, Glandular: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%	Total	0/150 (0%)	Mean 0%	SD 0%
Testis: Adenoma								
		0/50 (0%)	2/50 (4%)	0/50 (0%)				
Overall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%				
Testis: Hemangioma	•••••							
		0/50 (0%)	0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/150 (0%)	Mean 0%	SD 0%				
Thymus: Thymoma Benign								
		1/49 (2%)	0/40 (0%)	0/47 (0%)		0/49 (0%)	0/48 (0%)	0/50 (0%)
verall Incidence	Total	1/136 (0.74%)	Mean 0.68%	SD 1.18%	Total	0/147 (0%)	Mean 0%	SD 0%
Thymus: Thymoma NOS								
•		0/49 (0%)	0/40 (0%)	0/47 (0%)		0/49 (0%)	0/48 (0%)	0/50 (0%)
Overall Incidence	Total	0/136 (0%)	Mean 0%	SD 0%	Total	0/147 (0%)	Mean 0%	SD 0%
Thymus: Thymoma: Benign, Malign	ant, NOS							
S	T-1-1	1/49 (2%)	0/40 (0%)	0/47 (0%)	T-1-1	0/49 (0%)	0/48 (0%)	0/50 (0%)
Overall Incidence	Total	1/136 (0.74%)	Mean 0.68%	SD 1.18%	Total	0/147 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

N0V2U19

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL

ed Control Animal Groups
AVAGE
ORN OIL
Page: 34
Report Date: 11/01/2019

			Male				Female	
*Thyroid Gland: C-Cell: Adenoma		0/50 (00/)	0/50 (00/)	0/50 (00/)		0/50 (00/)	4/50 (00()	0/50 (00/)
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%
*Thyroid Gland: C-Cell: Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	1/50 (2%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	0/50 (0%) SD 1.15%
*Thyroid Gland: C-Cell: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
*Thyroid Gland: Follicular Cell Adenoma	:: :							
Overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
*Thyroid Gland: Follicular Cell Carcinoma or Adenoma						•••••		
Overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	1/50 (2%) 2/150 (1.33%)	1/50 (2%) Mean 1.33%	0/50 (0%) SD 1.15%
#Tongue: Squamous Cell Carcinoma of		•						
Overall Incidence	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	Total	0/50 (0%) 1/150 (0.67%)	0/50 (0%) Mean 0.67%	1/50 (2%) SD 1.15%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 35

			Male				Female	
#Tongue: Squamous Cell Papilloma								
		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%
≠Tooth: Odontoma								
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	2/150 (1.33%)	Mean 1.33%	SD 2.31%	Total	0/150 (0%)	Mean 0%	SD 0%
Urinary Bladder: Hemangiosarcoma								
		0/50 (0%)	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	0/149 (0%)	Mean 0%	SD 0%
Urinary Bladder: Mast Cell Tumor								
		0/50 (0%)	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	0/149 (0%)	Mean 0%	SD 0%
Uterus: Adenoma								
						0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence					Total	1/150 (0.67%)	Mean 0.67%	SD 1.15%
tUterus: Fibroma								
						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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 36

	Male			Female	
#Uterus: Granular Cell Tumor Benign			0/50 (0%)	0/50 (09/)	0/50 (0%)
Overall Incidence		Total	0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Uterus: Hemangioma					
Overall Incidence		Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%
Uterus: Hemangiosarcoma					
Overall Incidence		Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Uterus: Leiomyoma			0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence		Total	0/150 (0%)	Mean 0%	SD 0%
Uterus: Polyp Stromal					
Overall Incidence		Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%
Uterus: Sarcoma Stromal					
Overall Incidence		Total	0/50 (0%) 2/150 (1.33%)	0/50 (0%) Mean 1.33%	2/50 (4%) SD 2.31%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: CORN OIL **Page:** 37

			Male			Female			
#Uterus: Sarcoma Stromal or Polyp	Stromal								
Overall Incidence					Total	0/50 (0%) 2/150 (1.33%)	0/50 (0%) Mean 1.33%	2/50 (4%) SD 2.31%	
#Vagina: Hemangioma									
Overall Incidence					Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	
#Zymbal's Gland: Carcinoma					•••••				
Overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	
#Zymbal's Gland: Carcinoma or Adenoma									
Overall Incidence	Total	0/50 (0%) 1/150 (0.67%)	1/50 (2%) Mean 0.67%	0/50 (0%) SD 1.15%	Total	0/50 (0%) 0/150 (0%)	0/50 (0%) Mean 0%	0/50 (0%) SD 0%	

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 38

Report Date: 11/01/2019

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	052020304	07/10/07	730	50(1)	33(694)	52.6	Green Tea Extract
					Female		
Battelle Columbus Laboratory	052020304	07/09/07	729	50(5)	34(665)	62.9	Green Tea Extract

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 39 Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: WATER

Length of Study: CHRONIC

Male **Female** #All Organs: **Benign Tumors** 43/50 (86%)20/50 (40%)**Overall Incidence** Total 43/50 (86%) Mean 86% SD 0% Total 20/50 (40%) Mean 40% SD 0% #All Organs: **Malignant Tumors** 28/50 (56%)18/50 (36%)**Overall Incidence** Total 28/50 (56%) Mean 56% SD 0% Total 18/50 (36%) Mean 36% SD 0% #All Organs: **Malignant and Benign Tumors** 49/50 (98%)29/50 (58%)**Overall Incidence** Total 49/50 (98%) Mean 98% SD 0% Total 29/50 (58%) Mean 58% SD 0% #All Organs: Hemangioma 2/50 (4%)0/50 (0%)Overall Incidence Total 2/50 (4%) Mean 4% SD 0% Total 0/50 (0%) Mean 0% SD 0% **#All Organs:** Hemangiosarcoma 5/50 (10%)2/50 (4%)**Overall Incidence** Total 5/50 (10%) Mean 10% SD 0% Total 2/50 (4%) Mean 4% SD 0% **#All Organs:** Hemangiosarcoma or Hemangioma 7/50 (14%)2/50 (4%)**Overall Incidence** Total 7/50 (14%) Mean 14% SD 0% Total 2/50 (4%) Mean 4% SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER

ed Control Animal Groups Report Date: 11/01/2019
AVAGE

Page: 40

			Male				Female	
#All Organs: Histiocytic Sarcoma		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#All Organs: Malignant Lymphoma: Histi						7/50 (14%)		
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	7/50 (14%)	Mean 14%	SD 0%
#All Organs: Malignant Schwannoma		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#All Organs: Osteosarcoma		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#All Organs: Osteosarcoma or Osteoma		2/22 (221)				2/52 (221)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Adrenal Cortex: Adenoma		1/49 (2%)				0/49 (0%)		
Overall Incidence	Total	1/49 (2.04%)	Mean 2.04%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 41

			Male				Female				
*Adrenal Medulla: Pheochromocytoma Benign 0/49 (0%) 0/49 (0%)											
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%			
*Adrenal Medulla: Pheochromocytoma Ma	lignant										
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%			
*Adrenal Medulla: Pheochromocytoma: Be	nign, Complex,	0/49 (0%)				0/49 (0%)					
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%			
#Blood Vessel: 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%			
#Blood Vessel: 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 Marrow: Hemangiosarcoma		1/50 (2%)				1/50 (2%)					
		1/30 (2/0)				1/50 (2/0)					

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 42

			Male				Female	
*Bone Marrow: Mast 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%
*Bone Marrow: Sarcoma								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Bone: Fibroma		0/50 (00)				0/50 /00/)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
		` '				, ,		
#Bone: 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%
#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%)		OD 00/	-	0/50 (0%)	14 00/	00.00/
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 43

			Male				Female	
#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%
#Bone: Sarcoma		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Clitoral/Preputial Gland: Mast Cell Tumor		0/50 (0%)				0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Granular Cell Tumor		0/50 (0%)				0/50 (0%)		05.00
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Sarcoma								
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Epididymis: Mast Cell Tumor		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 44

			Male				Female	
#Harderian Gland: Adenoma								
		7/50 (14%)				2/50 (4%)		
Overall Incidence	Total	7/50 (14%)	Mean 14%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
#Harderian Gland: Carcinoma								
		1/50 (2%)				2/50 (4%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
#Harderian Gland: Carcinoma or Adenoma								
		8/50 (16%)				4/50 (8%)		
Overall Incidence	Total	8/50 (16%)	Mean 16%	SD 0%	Total	4/50 (8%)	Mean 8%	SD 0%
#Harderian Gland: Mast Cell Tumor								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
		` '				` '		
*Heart: 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%
#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%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Vehicle: WATER

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups Route: GAVAGE

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Page: 45

				Male				Female	
#Intestine Small: Duodenum: Adenoma									
			(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Carcinoma									
			(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Polyp Adenomatous		0/50	(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	(070)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Ileum: Adenoma Overall Incidence	Total		(0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Adenoma									
Overall Institutes	Tatal		(0%)	Mana 00/	CD 00/	Tatal	0/50 (0%)	Mana 00/	SD 0%
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	טט ט%
#Intestine Small: Jejunum: Carcinoma		2/50	(4%)				0/50 (0%)		
Overall Incidence	Total	2/50 (4%)	(4/0)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 46

				Male				Female	
#Intestine Small: Jejunum: Leiomyosarcoma									
		0/50	(0%)				1/50 (2%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
#Intestine Small: Jejunum: Mast Cell Tumor									
			(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Adenoma									
	-		(0%)		OD 00/	T	0/50 (0%)		00.00/
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Carcinoma	ified:	0/50	(40/)				0/50 (00/)		
Overall Incidence	Total	2/50 2/50 (4%)	(4%)	Mean 4%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Carcinoma or Adenoma									
		2/50	(4%)				0/50 (0%)		
Overall Incidence	Total	2/50 (4%)		Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Leiomyosarcoma			(00()				4/50 (00/)		
Overall Incidence	Total	0/50 0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%
Overall incidence		` '					` '		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Mast Cell Tumor

Overall Incidence

Overall Incidence

*Islets, Pancreatic: Adenoma

Overall Incidence

*Islets, Pancreatic: Carcinoma

Overall Incidence

Polyp Adenomatous

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER

Male **Female** #Intestine Small: Site Unspecified: 0/50 (0%)0/50 (0%)Total 0/50 (0%) Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 0% #Intestine Small: Site Unspecified: 0/50 (0%)0/50 (0%)Total 0/50 (0%) Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 0% 1/50 (2%)1/50 (2%)Total 1/50 (2%) Mean 2% SD 0% Total 1/50 (2%) Mean 2% SD 0% 1/50 (2%)0/50 (0%)

Total

0/50 (0%)

Page: 47

Mean 0%

SD 0%

Report Date: 11/01/2019

*Islets	s, Pancrea	tic:
Car	cinoma or	Ader
	,	

Carcinoma or Adenoma

.....

2/50 (4%)1/50 (2%)**Overall Incidence** Total 2/50 (4%) Mean 4% SD 0% Total 1/50 (2%) Mean 2% SD 0%

Mean 2%

*Kidney: Renal Tubule:

Adenoma

1/50 (2%)0/50 (0%)1/50 (2%) Mean 2% SD 0%

SD 0%

Overall Incidence Total SD 0% Total 0/50 (0%) Mean 0% *: Denominator is number of animals with tissues examined microscopically

Total

1/50 (2%)

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 48

			Male				Female	
*Kidney: Renal Tubule: Carcinoma								
Occupation of the second	Taral	2/50 (4%)	Manage 40/	OD 00/	T-1-1	0/50 (0%)	Maran 00/	OD 00/
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Carcinoma or Adenoma								
		3/50 (6%)				0/50 (0%)		
Overall Incidence	Total	3/50 (6%)	Mean 6%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Hemangiosarcoma		0/50 /00/)				0/50 (00)		
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: Mast Cell Tumor		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: Renal Mesenchymal Tumo								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Liver: Cholangiocarcinoma		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 49

			Male				Female			
*Liver: Hemangioma										
Overall Incidence	Total	2/50 (4%) 2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Liver: Hemangiosarcoma		2/20 (201)				(00)				
Overall Incidence	Total	3/50 (6%) 3/50 (6%)	Mean 6%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%		
*Liver: Hepatoblastoma										
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Liver: Hepatocellular Adenoma		35/50 (70%)				12/50 (24%)				
Overall Incidence	Total	35/50 (70%)	Mean 70%	SD 0%	Total	12/50 (24%)	Mean 24%	SD 0%		
*Liver: Hepatocellular Carcinoma										
Overall Incidence	Total	15/50 (30%) 15/50 (30%)	Mean 30%	SD 0%	Total	5/50 (10%) 5/50 (10%)	Mean 10%	SD 0%		
		` '				` ,		02 070		
*Liver: Hepatocellular Carcinoma o	or Hepatobla	astoma 17/50 (34%)				5/50 (10%)				
Overall Incidence	Total	17/50 (34%)	Mean 34%	SD 0%	Total	5/50 (10%)	Mean 10%	SD 0%		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 50

			Male			Female				
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma 40/50 (200)										
Overall Institutes	Tatal	40/50 (80%)	Mean 80%	CD 00/	Tatal	14/50 (28%)	Mana 200/	CD 00/		
Overall Incidence	Total	40/50 (80%)	wean 80%	SD 0%	Total	14/50 (28%)	Mean 28%	SD 0%		
*Liver: Hepatocellular Carcino	oma, Hepatocellu	lar Adenoma, or Hepatob	lastoma							
		40/50 (80%)				14/50 (28%)				
Overall Incidence	Total	40/50 (80%)	Mean 80%	SD 0%	Total	14/50 (28%)	Mean 28%	SD 0%		
*Liver: Hepatocholangiocarcir										
		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: Mast Cell Tumor		0/50 (0%)				0/50 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
*Lung: Alveolar/Bronchiolar A			•••••				•••••			
		12/50 (24%)				5/50 (10%)				
Overall Incidence	Total	12/50 (24%)	Mean 24%	SD 0%	Total	5/50 (10%)	Mean 10%	SD 0%		
*Lung: Alveolar/Bronchiolar C	arcinoma									
		2/50 (4%)				1/50 (2%)				
Overall Incidence	Total	2/50 (4%)	Mean 4%	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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 51

			Male		Female					
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma 14/50 (28%) Overall Incidence Total 14/50 (28%) Mean 28% SD 0% Total 6/50 (12%) Mean 12% SD 0%										
Overall Incidence	Total	14/50 (28%)	Mean 28%	SD 0%	Total	6/50 (12%)	Mean 12%	SD 0%		
*Lung: Hemangiosarcoma										
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Lung: Mast Cell Tumor		0/50 (0%)				0/50 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
#Lymph Node: 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%		
#Lymph Node: Mast Cell Tumor										
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
#Lymph Node, Mandibular Mast Cell Tumor		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 52

				Male			Female			
#Lymph Node, Mandibular: Mast Cell Tumor Malignant										
Overall Incidence	Tatal	0/50	(0%)	Mana 00/	CD 00/	Tatal	0/50 (0%)	Mana 00/	CD 00/	
Overall incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: 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%	
#Lymph Node, Mesenteric: Hemangiosarcoma		1/50	(20/)				0/50 (00/)			
Overall Incidence	Total	1/50 (2%)	(2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
·····		` ,								
#Lymph Node, Mesenteric: Mast Cell Tumor		0/50	(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	,	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Mast 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%	
#Mammary Gland: Adenoma										
		0/50	(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 53

			Male			Female					
#Mammary Gland: Carcinoma											
Overall Incidence	Total	0/50 (0º 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%			
#Mammary Gland: Carcinoma or Adenoma											
Overall Incidence	Total	0/50 (0° 0/50 (0%)	%) Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%			
#Mammary Gland: Fibroma, Fibroadenoma o	r 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: Fibroma, Fibroadenoma, (0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%			
#Mesentery: 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%			
#Mesentery: Hemangiosarcoma		0/50 /0	0/\			0/50 (09/)					
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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 54

			Male			Female			
#Mesentery: Lipoma									
		0/50 (0%)		25 22/		0/50 (0%)		05.00	
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Mesentery: Sarcoma									
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Nose: Adenoma		0/50 (0%)				1/48 (2%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/48 (2.08%)	Mean 2.08%	SD 0%	
*Nose: Polyp Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/48 (0%) 0/48 (0%)	Mean 0%	SD 0%	
#Oral Cavity (Oral Mucos Papilloma Squamous o	sa, Tongue, Phary								
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Oral Cavity (Oral Mucos Squamous Cell Carcin	sa, Tongue, Phary	nx, Tooth, Gingiva):							
		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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Mean 0%

Mean 0%

SD 0%

SD 0%

Report Date: 11/01/2019

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female #Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):** Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma 0/50 (0%)0/50 (0%)0/50 (0%) **Overall Incidence** Total Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 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%) Mean 0% SD 0% *Ovary: Cystadenocarcinoma 1/50 (2%)Overall Incidence Total 1/50 (2%) Mean 2% SD 0% *Ovary: Cystadenoma 3/50 (6%)**Overall Incidence** Total 3/50 (6%) Mean 6% SD 0% *Ovary: **Granulosa Cell Tumor Benign** 0/50 (0%)**Overall Incidence**

Total

Total

0/50 (0%)

0/50

0/50 (0%)

(0%)

Granulosa Cell Tumor Malignant

Overall Incidence

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: GAVAGE Vehicle: WATER

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** *Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS 0/50 (0%)SD 0% **Overall Incidence** Total 0/50 (0%) Mean 0% *Ovary: **Granulosa-Theca Tumor Malignant** 0/50 (0%)**Overall Incidence** Total 0/50 (0%) Mean 0% SD 0% *Ovary: Hemangioma 0/50 (0%)**Overall Incidence** Total 0/50 (0%) Mean 0% SD 0% *Ovary: Hemangiosarcoma 0/50 (0%)**Overall Incidence** SD 0% Total 0/50 (0%) Mean 0% *Ovary: Luteoma 0/50 (0%)**Overall Incidence** Total 0/50 (0%) Mean 0% SD 0%

1/50

1/50 (2%)

Total

(2%)

Mean 2%

SD 0%

*Ovary: Sarcoma

Overall Incidence

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER

Strain: B6C3F1/N Length of Study: CHRONIC AVAGE

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			Male				Female	
*Ovary: Thecoma Malignant								
Overall Incidence					Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Ovary: Tubulostromal Adenon								
Overall Incidence					Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Pancreas: Mast Cell Tumor								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
		` '				, ,		
*Parathyroid Gland: Adenoma								
Overall Incidence	Total	0/41 (0%) 0/41 (0%)	Mean 0%	SD 0%	Total	0/35 (0%) 0/35 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Dis								
Adenoma		1/49 (2%)				0/50 (0%)		
Overall Incidence	Total	1/49 (2.04%)	Mean 2.04%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Dis Carcinoma								
		0/49 (0%)				0/50 (0%)		
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups **Route:** GAVAGE Report Date: 11/01/2019

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Species: MICE Strain: B6C3F1/N

Vehicle: WATER

Length of Study: CHRONIC

			Male			Female				
*Pituitary Gland: Pars Dista Carcinoma or Adenoma	lis or Unspeci	fied Site:								
Overall Incidence	Total	1/49 (2%) 1/49 (2.04%)	Mean 2.04%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Pituitary Gland: Pars Interr	nedia:									
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Pituitary Gland: Pars Interr Carcinoma	media:									
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Pituitary Gland: Pars Interr Carcinoma or Adenoma						0/50 (00/)				
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Pituitary Gland: Pars Interr Schwannoma Malignant										
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Prostate: Mast Cell Tumor										
Overall Incidence	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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER Page: 59

			Male			Female			
*Salivary Glands: Adenoma									
	-	0/50 (0%)		05.00/		0/50 (0%)		00.004	
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Salivary Glands: Carcinoma									
	-	0/50 (0%)	NA 00/	OD 00/	-	0/50 (0%)		05.00/	
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Salivary Glands: 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%	
		, ,						02 070	
*Salivary Glands: Hemangiosarcoma		0/50 (09/)				0/50 (00/)			
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Salivary Glands: Mast Cell Tumor									
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Salivary Glands: Myxosarcoma		0/50 (0%)				0/50 (0%)			
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 60

			Male				Female	
#Seminal Vesicle: Adenoma								
		0/50 (0%)		05.00				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
#Seminal Vesicle: Fibroma								
	-	0/50 (0%)		OD 00/				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
#Skeletal Muscle: Hemangiosarcoma		0(50 (004)				0/50 (00)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
					10tai	0/30 (0 /8)		
#Skeletal Muscle: 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%
#Skeletal Muscle: Rhabdomyosarcoma								
·		0/50 (0%)				2/50 (4%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
#Skeletal Muscle: Rhabdomyosarcoma or F	Rhabdomyoma							
		0/50 (0%)				2/50 (4%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Page: 61

Report Date: 11/01/2019

Strain: B6C3F1/N Length of Study: CHRONIC Vehicle: WATER

			Male			Female			
#Skeletal Muscle: Sarcoma									
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Skin: Basal Cell Carcinoma		0/50 (00()				0/50 (00/)			
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Skin: Basal Cell Carcinoma	or Basosquamou	s Tumor (malignant or N	IOS)						
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Skin: Basal Cell Carcinoma, NOS), or Trichoepitheli		oma, Basosquamous Tu	mor (benign, maligna	ant or					
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
		a, Basosq. Tumor (M or ratoacanthoma, Trichoe 0/50 (0%)		ma,		0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Skin: Fibroma		0/50 (0%)				0/50 /00/			
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
						11/6/1 //19/.1			

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 62 Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: GAVAGE Vehicle: WATER

Length of Study: CHRONIC

			Male			Female					
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma											
0 1 7		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%			
#Skin: Fibroma, Fibrosarcoma,	Sarcoma Myy	oma Myvosarcoma or N	lalianant Fibrous His	ctiocytoma							
i ibioilia, i ibiosarcoilia,	Garconia, Wyx	0/50 (0%)	iangnant i brous ins	stiocytoma		0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%			
#Skin: Fibrosarcoma		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%			
#Skin: Fibrosarcoma, Sarcoma	-	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: Hemangioma						0/50 (00/)					
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%			
#Skin: Hemangiosarcoma		0/50 (00)				0/50 (001)					
Overell Incidence	Total	0/50 (0%)	Maan 00/	CD 00/	Total	0/50 (0%)	Maan 00/	CD 00/			
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

Species: MICE

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups Route: GAVAGE

Strain: B6C3F1/N Vehicle: WATER Length of Study: CHRONIC

			Male				Female	
#Skin: Keratoacanthoma								
		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: 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%
·····								
#Skin: Liposarcoma								
		0/50 (0%)				0/50 (0%)		00.007
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Skin: Malignant Fibrous Histic	ocytoma							
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Skin: Melanoma 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%
#Skin: Neurofibrosarcoma or S		alignant or NOS)						
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
Overall incluence		` '				` ,		

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

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Report Date: 11/01/2019

Length of Study: CHRONIC

Strain: B6C3F1/N Vehicle: WATER

			Male	Female				
#Skin:								
Neurofibrosarcoma, Neuro	ofibroma, or S		alignant or NOS)			0/50 (00/)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
	Total			 	ı otal	0/50 (0%)	wiean 0%	3D 0%
#Skin:								
Osteosarcoma								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Skin:								
Pilomatrixoma								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Skin:								
Sarcoma								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Skin:								
Schwannoma Malignant								
_		0/50 (0%)				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	a, Basal Cell (Carcinoma, Basosquam	ous Tumor (malignar	nt or NOS),				
or Carcinoma		0/50 (00/)				0/50 (00/)		
Overell Incidence	Total	0/50 (0%)	Maan OO/	CD 00/	Total	0/50 (0%)	Maan 00/	CD 00/
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 65

			Male			Female			
#Skin: Squamous Cell Papilloma									
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Skin:									
Squamous Cell Papilloma	or Papilloma	0/50 (00/)				0/50 (00/)			
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Skin: Squamous Cell Papilloma,	Papilloma. S	guamous Cell Carcinon	na or Keratoacanthor	na					
equament con r apmoma,	. apinoma, o	0/50 (0%)	ia or rioraroadaminor			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%	
#Spinal Cord: 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%	
*Spleen: Hemangiosarcoma									
• " "	-	2/50 (4%)		OD 00/	-	0/50 (0%)		00.00/	
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 66

				Male				Female	
#Stomach, Forestomach: Mast Cell Tumor Malignant									
		,	(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma		0/50 /	(004)				4/50 (00/)		
Overall Incidence	Total	0/50 (0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma	or Papilloma	•	(0%)				2/50 (4%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%
#Stomach, Forestomach: Squamous Cell Papilloma		0/50 (0%)				1/50 (2%)		
Overall Incidence	Total	0/50 (0%)	(0,0)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
#Stomach, Glandular: Adenoma									
			(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Carcinoma		0/50	(004)				0(50 (00))		
Overell Incidence	Tatal		(0%)	Mann 00/	CD 00/	Tatal	0/50 (0%)	Mann 00/	CD 00/
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 67

			Male				Female	
#Stomach, Glandular: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Testis: Adenoma								
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%				
*Testis: Hemangioma		0/50 (0%)						
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
*Thymus: Thymoma Benign		0/44 (0%)				0/47 (0%)		
Overall Incidence	Total	0/44 (0%)	Mean 0%	SD 0%	Total	0/47 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma NOS								
Overall Incidence	Total	0/44 (0%) 0/44 (0%)	Mean 0%	SD 0%	Total	0/47 (0%) 0/47 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma: Benign, Malign	ant, NOS	0/44 (0%)				0/47 (0%)		
Overall Incidence	Total	0/44 (0%)	Mean 0%	SD 0%	Total	0/47 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 68

				Male				Female	
*Thyroid Gland: C-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: C-Cell: Carcinoma									
			(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Carcinoma or Adenoma		0/50	(00/)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
		, ,							05 070
*Thyroid Gland: Follicular Ce Adenoma	II:								
			(2%)				0/50 (0%)		
Overall Incidence	Total	1/50 (2%)		Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Thyroid Gland: Follicular Ce 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%
#Tongue: Squamous Cell Carcinoma	or Papilloma	a 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%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 69

			Male				Female	
#Tongue: 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%
#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: 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%
*Urinary Bladder: Mast Cell Tumor		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: Adenoma								
Overall Incidence					Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Uterus: Fibroma						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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 70

Male			Female	
		0/50 (00/)		
	Total	0/50 (0%)	Mean 0%	SD 0%
		0/50 (00/)		
	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
		0/50 /09/)		
	Total	0/50 (0%)	Mean 0%	SD 0%
	Total	0/50 (0%)	Mean 0%	SD 0%
	Total	2/50 (4%) 2/50 (4%)	Mean 4%	SD 0%
		0/50 /00/		
	Total	0/50 (0%)	Mean 0%	SD 0%
		Total Total Total Total	0/50 (0%) Total 0/50 (0%) 0/50 (0%) Total 2/50 (4%) Total 2/50 (4%) 0/50 (0%)	O/50 (0%) Total O/50 (0%) Mean 0% O/50 (0%) Total O/50 (0%) Mean 0% O/50 (0%) Total O/50 (0%) Mean 0% O/50 (0%) Total O/50 (0%) Mean 0% O/50 (0%) Mean 0% O/50 (0%) Mean 0% O/50 (0%) Mean 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE Vehicle: WATER **Page:** 71

			Male				Female	
#Uterus:						,		,
Sarcoma Stromal or Poly	p Stromal							
					T	2/50 (4%)	14	00.00/
Overall Incidence					Total	2/50 (4%)	Mean 4%	SD 0%
#Vagina:								
Hemangioma								
_						0/50 (0%)		
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 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%)	Mean 0%	SD 0%
#Zymbal's Gland:								
Carcinoma or Adenoma								
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date: 11/01/2019

Study Summary

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		
052060104	10/06/08	729	50(5)	38(708)	52.1	Antimony trioxide
052072504	08/31/09	729	50(5)	35(697)	51.1	2,3-Butanedione
052051504	05/05/08	729	50(5)	39(709)	52.6	Metal Working Fluids: CIMSTAR 3800
052052304	08/03/09	729	50(5)	38(692)	52.4	Metal Working Fluids: TRIM VX
051047204	01/31/11	729	50(5)	40(705)	52.7	p-Chloro-a,a,a-trifluorotoluene
				Female		
052060104	10/06/08	731	50(5)	36(692)	54.1	Antimony trioxide
052072504	08/31/09	731	50(5)	36(697)	51.0	2,3-Butanedione
052051504	05/05/08	731	50(5)	39(696)	59.2	Metal Working Fluids: CIMSTAR 3800
052052304	08/03/09	731	50(5)	35(692)	57.9	Metal Working Fluids: TRIM VX
051047204	01/31/11	731	50(5)	38(700)	55.9	p-Chloro-a,a,a-trifluorotoluene
	052060104 052072504 052051504 052052304 051047204 052060104 052072504 052051504 052052304	Study Number Start Date 052060104 052072504 052072504 052051504 052052304 051047204 10/06/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/09	Study Number Study Start Date of Study in Days 052060104 10/06/08 729 052072504 08/31/09 729 052051504 05/05/08 729 052052304 08/03/09 729 051047204 01/31/11 729 052060104 10/06/08 731 052072504 08/31/09 731 052051504 05/05/08 731 052052304 08/03/09 731	Study Number Study Start Date of Study in Days of Animals Total and (#/Cage) 052060104 10/06/08 729 50(5) 052072504 08/31/09 729 50(5) 052051504 05/05/08 729 50(5) 052052304 08/03/09 729 50(5) 051047204 01/31/11 729 50(5) 052072504 08/31/09 731 50(5) 052051504 05/05/08 731 50(5) 052052304 08/03/09 731 50(5) 052052304 08/03/09 731 50(5)	Study Number Study Start Date of Study in Days of Animals Total and (#/Cage) Surviving and (Mean Life Span) Male Male 052060104 10/06/08 729 50(5) 38(708) 052072504 08/31/09 729 50(5) 35(697) 052051504 05/05/08 729 50(5) 39(709) 052052304 08/03/09 729 50(5) 38(692) 051047204 01/31/11 729 50(5) 40(705) Female 052060104 10/06/08 731 50(5) 36(692) 052072504 08/31/09 731 50(5) 36(697) 052051504 05/05/08 731 50(5) 39(696) 052052304 08/03/09 731 50(5) 35(692) 	Study Number Study Date of Study in Days of Animals Total and (#/Cage) Surviving and (Mean Life Span) Mean Weekly Body Weight Male Male 052060104 10/06/08 729 50(5) 38(708) 52.1 052072504 08/31/09 729 50(5) 35(697) 51.1 052051504 05/05/08 729 50(5) 39(709) 52.6 052052304 08/03/09 729 50(5) 38(692) 52.4 051047204 01/31/11 729 50(5) 40(705) 52.7 Female

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Report Date: 11/01/2019

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Species: MICE Strain: B6C3F1/N

Vehicle: AIR

			Male				Female	
#All Organs: Benign Tumors								
		37/50 (74%) 32/50 (64%)	22/50 (44%) 32/50 (64%)	39/50 (78%)		25/50 (50%) 23/50 (46%)	15/50 (30%) 24/50 (48%)	26/50 (52%)
Overall Incidence	Total	162/250 (64.8%)	Mean 64.8%	SD 13.16%	Total	113/250 (45.2%)	Mean 45.2%	SD 8.79%
#All Organs: Malignant Tumors								
		25/50 (50%) 32/50 (64%)	27/50 (54%) 25/50 (50%)	26/50 (52%)		25/50 (50%) 27/50 (54%)	24/50 (48%) 24/50 (48%)	30/50 (60%)
Overall Incidence	Total	135/250 (54%)	Mean 54%	SD 5.83%	Total	130/250 (52%)	Mean 52%	SD 5.1%
#All Organs: Malignant and Benign T								
		45/50 (90%) 42/50 (84%)	37/50 (74%) 44/50 (88%)	46/50 (92%)		35/50 (70%) 38/50 (76%)	34/50 (68%) 38/50 (76%)	41/50 (82%)
verall Incidence	Total	214/250 (85.6%)	Mean 85.6%	SD 7.13%	Total	186/250 (74.4%)	Mean 74.4%	SD 5.55%
All Organs: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
verall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
All Organs: Hemangiosarcoma								
		2/50 (4%) 0/50 (0%)	1/50 (2%) 2/50 (4%)	1/50 (2%)		4/50 (8%) 2/50 (4%)	0/50 (0%) 3/50 (6%)	3/50 (6%)
Overall Incidence	Total	6/250 (2.4%)	Mean 2.4%	SD 1.67%	Total	12/250 (4.8%)	Mean 4.8%	SD 3.03%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#All Organs: Hemangiosarcoma or H	emangioma							
riomangiocarooma or ri	omangioma	2/50 (4%) 0/50 (0%)	1/50 (2%) 2/50 (4%)	2/50 (4%)		4/50 (8%) 3/50 (6%)	0/50 (0%) 3/50 (6%)	3/50 (6%)
Overall Incidence	Total	7/250 (2.8%)	Mean 2.8%	SD 1.79%	Total	13/250 (5.2%)	Mean 5.2%	SD 3.03%
#All Organs: Histiocytic Sarcoma								
•		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		3/50 (6%) 4/50 (8%)	1/50 (2%) 2/50 (4%)	2/50 (4%)
Overall Incidence	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	Total	12/250 (4.8%)	Mean 4.8%	SD 2.28%
•	Histiocytic, Lym	nphocytic, Mixed, NOS, o 4/50 (8%)	or Undifferentiated Cel 6/50 (12%)	I Type 3/50 (6%)		7/50 (14%)	9/50 (18%)	18/50 (36%)
	Histiocytic, Lym		or Undifferentiated Cel	I Туре			9/50 (18%)	18/50 (36%)
Malignant Lymphoma: H	Histiocytic, Lym	4/50 (8%)	or Undifferentiated Cel 6/50 (12%)	I Туре	Total	7/50 (14%)	` '	18/50 (36%) SD 8.56%
Malignant Lymphoma: H	Total	4/50 (8%) 6/50 (12%) 25/250 (10%)	or Undifferentiated Cel 6/50 (12%) 6/50 (12%) Mean 10%	I Type 3/50 (6%) SD 2.83%		7/50 (14%) 10/50 (20%) 53/250 (21.2%)	9/50 (18%) Mean 21.2%	SD 8.56%
Malignant Lymphoma: H Overall Incidence #All Organs:	Total	4/50 (8%) 6/50 (12%)	or Undifferentiated Cel 6/50 (12%) 6/50 (12%)	I Type 3/50 (6%)		7/50 (14%) 10/50 (20%)	9/50 (18%)	,
Malignant Lymphoma: H Overall Incidence #All Organs:	Total	4/50 (8%) 6/50 (12%) 25/250 (10%) 0/50 (0%)	or Undifferentiated Cel 6/50 (12%) 6/50 (12%) Mean 10%	I Type 3/50 (6%) SD 2.83%		7/50 (14%) 10/50 (20%) 53/250 (21.2%) 0/50 (0%)	9/50 (18%) Mean 21.2% 0/50 (0%)	SD 8.56%
Malignant Lymphoma: h Overall Incidence #All Organs: Malignant Schwannoma Overall Incidence	Total	4/50 (8%) 6/50 (12%) 25/250 (10%) 0/50 (0%) 0/50 (0%)	or Undifferentiated Cel 6/50 (12%) 6/50 (12%) Mean 10% 0/50 (0%) 1/50 (2%)	3/50 (6%) SD 2.83%	Total	7/50 (14%) 10/50 (20%) 53/250 (21.2%) 0/50 (0%) 0/50 (0%)	9/50 (18%) Mean 21.2% 0/50 (0%) 0/50 (0%)	SD 8.56% 0/50 (0%)
Malignant Lymphoma: h Overall Incidence #All Organs: Malignant Schwannoma Overall Incidence #All Organs:	Total	4/50 (8%) 6/50 (12%) 25/250 (10%) 0/50 (0%) 0/50 (0%)	or Undifferentiated Cel 6/50 (12%) 6/50 (12%) Mean 10% 0/50 (0%) 1/50 (2%)	3/50 (6%) SD 2.83%	Total	7/50 (14%) 10/50 (20%) 53/250 (21.2%) 0/50 (0%) 0/50 (0%)	9/50 (18%) Mean 21.2% 0/50 (0%) 0/50 (0%)	SD 8.56% 0/50 (0%)

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Vehicle: AIR

Route: INHALATION

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Report Date: 11/01/2019

			Male				Female	
#All Organs: Osteosarcoma or Osteo	ma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
*Adrenal Cortex: Adenoma								
		4/49 (8%) 3/50 (6%)	2/50 (4%) 0/50 (0%)	9/49 (18%)		1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/49 (0%)
Overall Incidence	Total	18/248 (7.26%)	Mean 7.31%	SD 6.88%	Total	2/249 (0.8%)	Mean 0.8%	SD 1.1%
*Adrenal Medulla: Pheochromocytoma Ber	nign							
		0/49 (0%) 0/50 (0%)	0/50 (0%)	1/48 (2%)		0/50 (0%)	1/50 (2%)	1/49 (2%)
Overall Incidence	Total	0/50 (0%) 1/247 (0.4%)	0/50 (0%) Mean 0.42%	SD 0.93%	Total	2/50 (4%) 5/249 (2.01%)	1/50 (2%) Mean 2.01%	SD 1.41%
Adrenal Medulla: Pheochromocytoma Mal	lignant							
•		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/48 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%)
Overall Incidence	Total	0/247 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
*Adrenal Medulla: Pheochromocytoma: Be	enign, Complex	ς, Malignant, NOS						
-	- · ·	0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/48 (2%)		0/50 (0%) 2/50 (4%)	1/50 (2%) 1/50 (2%)	1/49 (2%)
Overall Incidence	Total	1/247 (0.4%)	Mean 0.42%	SD 0.93%	Total	5/249 (2.01%)	Mean 2.01%	SD 1.41%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Blood Vessel: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Blood Vessel: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
*Bone Marrow: Hemangiosarcoma								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/247 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
*Bone Marrow: Mast Cell Tumor Malignant								
		0/49 (0%) 1/50 (2%)	1/48 (2%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/247 (0.81%)	Mean 0.82%	SD 1.12%	Total	0/249 (0%)	Mean 0%	SD 0%
*Bone Marrow: Sarcoma								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/247 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Bone: Fibroma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Bone: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Bone: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Bone: Osteosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Bone: Osteosarcoma or Osteoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date: 11/01/2019

			Male					Female	
#Bone: Sarcoma					,				
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50	(0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%		Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
*Clitoral/Preputial Gland: Mast Cell Tumor									
		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50	(0%)		0/48 (0%) 0/46 (0%)	0/47 (0%) 0/48 (0%)	0/44 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%		Total	0/233 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Granular Cell Tumor									
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50	(0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%		Total	0/250 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Sarcoma									
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50	(0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%		Total	0/250 (0%)	Mean 0%	SD 0%
*Epididymis: Mast Cell Tumor				- /					
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50	(0%)				
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%					

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Harderian Gland: Adenoma								
		6/50 (12%) 4/50 (8%)	3/50 (6%) 5/50 (10%)	7/50 (14%)		3/50 (6%) 1/50 (2%)	3/50 (6%) 2/50 (4%)	2/50 (4%)
Overall Incidence	Total	25/250 (10%)	Mean 10%	SD 3.16%	Total	11/250 (4.4%)	Mean 4.4%	SD 1.67%
#Harderian Gland: Carcinoma								
		1/50 (2%) 2/50 (4%)	0/50 (0%) 1/50 (2%)	5/50 (10%)		4/50 (8%) 3/50 (6%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	9/250 (3.6%)	Mean 3.6%	SD 3.85%	Total	8/250 (3.2%)	Mean 3.2%	SD 3.63%
#Harderian Gland: Carcinoma or Adenoma								
		7/50 (14%) 6/50 (12%)	3/50 (6%) 6/50 (12%)	12/50 (24%)		7/50 (14%) 4/50 (8%)	4/50 (8%) 2/50 (4%)	2/50 (4%)
Overall Incidence	Total	34/250 (13.6%)	Mean 13.6%	SD 6.54%	Total	19/250 (7.6%)	Mean 7.6%	SD 4.1%
Harderian Gland: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Heart: Hemangiosarcoma								
-		0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
fIntestine Large: Cecum: Leiomyosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Adenoma								
		2/50 (4%) 2/50 (4%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	5/250 (2%)	Mean 2%	SD 2%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Intestine Small: Duodenum: Carcinoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Polyp Adenomatous								
		0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Ileum: Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Intestine Small: Jejunum: Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Carcinoma								
		1/50 (2%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Leiomyosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Adenoma	ified:							
		2/50 (4%) 2/50 (4%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	1/50 (2%)
Overall Incidence	Total	5/250 (2%)	Mean 2%	SD 2%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male		Female	
#Intestine Small: Site Uns Carcinoma	specified:					
		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/250 (0.8%)	Mean 0.8% SD 1.1%	Total 0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma or Adenoma	specified:					
		3/50 (6%) 2/50 (4%)	0/50 (0%) 1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	1/50 (2%)
Overall Incidence	Total	7/250 (2.8%)	Mean 2.8% SD 2.28%	Total 2/250 (0.8%)	Mean 0.8%	SD 1.1%
#Intestine Small: Site Uns Leiomyosarcoma						
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0%	Total 0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Mast Cell Tumor	specified:					
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0%	Total 0/250 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Polyp Adenomatous						
		0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4% SD 0.89%	Total 0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Islets, Pancreatic: Adenoma								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 1/50 (2%)	2/50 (4%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	3/247 (1.21%)	Mean 1.2%	SD 1.79%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%
'Islets, Pancreatic: Carcinoma								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/247 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
Islets, Pancreatic: Carcinoma or Adenoma								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 1/50 (2%)	2/50 (4%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	3/247 (1.21%)	Mean 1.2%	SD 1.79%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%
Kidney: Renal Tubule: Adenoma		•••••						
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%
Kidney: Renal Tubule: Carcinoma								
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Species: MICE Strain: B6C3F1/N

Vehicle: AIR

			Male				Female	
Kidney: Renal Tubule: Carcinoma or Adenoma								
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	1/50 (2%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	2/249 (0.8%)	Mean 0.8%	SD 1.1%
Kidney: Renal Tubule: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
Kidney: Renal Tubule: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
Kidney: Renal Tubule: Renal Mesenchymal Tumor								
•		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
Liver: Cholangiocarcinoma								
		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

			Male				Female	
Liver: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Liver: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Liver: Hepatoblastoma								
•		2/50 (4%) 0/50 (0%)	1/50 (2%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 1/50 (2%)	1/50 (2%) 0/50 (0%)	1/50 (2%)
Overall Incidence	Total	4/250 (1.6%)	Mean 1.6%	SD 1.67%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.1%
Liver: Hepatocellular Adenoma								
		30/50 (60%) 23/50 (46%)	17/50 (34%) 25/50 (50%)	24/50 (48%)		11/50 (22%) 9/50 (18%)	6/50 (12%) 12/50 (24%)	14/50 (28%)
Overall Incidence	Total	119/250 (47.6%)	Mean 47.6%	SD 9.32%	Total	52/250 (20.8%)	Mean 20.8%	SD 6.1%
Liver: Hepatocellular Carcinoma								
		15/50 (30%) 21/50 (42%)	17/50 (34%) 8/50 (16%)	11/50 (22%)		6/50 (12%) 7/50 (14%)	5/50 (10%) 7/50 (14%)	10/50 (20%)
Overall Incidence	Total	72/250 (28.8%)	Mean 28.8%	SD 10.16%	Total	35/250 (14%)	Mean 14%	SD 3.74%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Species: MICE Strain: B6C3F1/N

Vehicle: AIR

			Male				Female	
Liver: Hepatocellular Carcino	ma or Hepatobl	astoma						
•	•	16/50 (32%) 21/50 (42%)	18/50 (36%) 9/50 (18%)	11/50 (22%)		6/50 (12%) 7/50 (14%)	6/50 (12%) 7/50 (14%)	10/50 (20%)
verall Incidence	Total	75/250 (30%)	Mean 30%	SD 9.9%	Total	36/250 (14.4%)	Mean 14.4%	SD 3.29%
Liver: Hepatocellular Carcino								
		39/50 (78%) 34/50 (68%)	31/50 (62%) 30/50 (60%)	32/50 (64%)		14/50 (28%) 15/50 (30%)	11/50 (22%) 18/50 (36%)	20/50 (40%)
verall Incidence	Total	166/250 (66.4%)	Mean 66.4%	SD 7.13%	Total	78/250 (31.2%)	Mean 31.2%	SD 7.01%
Liver: Hepatocellular Carcino Overall Incidence	ma, Hepatocellu Total	ular Adenoma, or Hepatol 39/50 (78%) 34/50 (68%) 168/250 (67.2%)	32/50 (64%) 31/50 (62%) Mean 67.2%	32/50 (64%) SD 6.42%	Total	14/50 (28%) 15/50 (30%) 79/250 (31.6%)	12/50 (24%) 18/50 (36%) Mean 31.6%	20/50 (40%) SD 6.39%
Liver: Hepatocholangiocarcin	oma	1/50 (2%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
Hepatocholangiocarcin	T otal	1/50 (2%) 0/50 (0%) 5/250 (2%)	1/50 (2%) 3/50 (6%) Mean 2%	0/50 (0%) SD 2.45%	Total	1/50 (2%) 0/50 (0%) 1/250 (0.4%)	0/50 (0%) 0/50 (0%) Mean 0.4%	0/50 (0%) SD 0.89%
Liver: Hepatocholangiocarcin Overall Incidence Liver: Mast Cell Tumor		0/50 (0%)	3/50 (6%)	,	Total	0/50 (0%)	0/50 (0%)	,

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC Male **Female** *Lung: Alveolar/Bronchiolar Adenoma 10/50 (20%)5/50 (10%)5/50 (10%)1/50 (2%)3/50 (6%)1/50 (2%)6/50 (12%)11/50 (22%)(8%)5/50 (10%)**Overall Incidence** Total 37/250 (14.8%) Mean 14.8% SD 5.76% Total 14/250 (5.6%) Mean 5.6% SD 3.58% *Lung: Alveolar/Bronchiolar Carcinoma (8%) 4/50 5/50 (10%)8/50 (16%)2/50 (4%)3/50 (6%)(8%)10/50 (20%)6/50 (12%)5/50 (10%)0/50 (0%)**Overall Incidence** Total 33/250 (13.2%) Mean 13.2% SD 4.82% Total 14/250 (5.6%) Mean 5.6% SD 3.85% *Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma 13/50 (26%)9/50 (18%)13/50 (26%)3/50 6/50 (12%)4/50 (8%)14/50 (28%)17/50 (34%)(18%)5/50 (10%)**Overall Incidence** Total 66/250 (26.4%) Mean 26.4% SD 5.73% Total 27/250 (10.8%) Mean 10.8% SD 4.6% *Lung: Hemangiosarcoma 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 1/250 (0.4%) Mean 0.4% SD 0.89% Total 0/250 (0%) Mean 0% SD 0% *Lung:

0/50

SD 0%

(0%)

0/50

0/50

0/250 (0%)

Total

(0%)

(0%)

0/50

0/50

(0%)

(0%)

Mean 0%

0/50

SD 0%

(0%)

Total

0/50

0/50

0/250 (0%)

(0%)

(0%)

.....

0/50

0/50

Mean 0%

(0%)

(0%)

Mast Cell Tumor

Overall Incidence

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups Species: MICE Route: INHALATION

Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
Lymph Node: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%
Lymph Node: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
£Lymph Node, Mandibular: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Lymph Node, Mandibular: Mast Cell Tumor Malignant				•••••				
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
£Lymph Node, Mesenteric: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%

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

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^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Lymph Node, Mesenteric: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Mast Cell Tumor Malignant								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Mammary Gland: Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Mammary Gland: Carcinoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	2/50 (4%)
Overall Incidence	Total	1/250 (0.4%)	` '	SD 0.89%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.79%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

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Report Date: 11/01/2019

Length of Study: CHRONIC

Vehicle: AIR

			Male				Female	
Mammary Gland: Carcinoma or Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	2/50 (4%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	4/250 (1.6%)	Mean 1.6%	SD 1.67%
Mammary Gland: Fibroma, Fibroadenoma o	r Adenoma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
Fibroma, Fibroadenoma, (Total	0/50 (0%) 0/50 (0%) 1/250 (0.4%)	0/50 (0%) 1/50 (2%) Mean 0.4%	0/50 (0%) SD 0.89%	Total	1/50 (2%) 0/50 (0%) 4/250 (1.6%)	1/50 (2%) 0/50 (0%) Mean 1.6%	2/50 (4%) SD 1.67%
#Mesentery: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
Mesentery:								
Hemangiosarcoma			0/50 (00/)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Hemangiosarcoma		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/30 (0 /8)		0/50 (0%)	1/50 (2%)	0/30 (0/0)

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

			Male				Female	
fMesentery: Lipoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
Mesentery: Sarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Nose: Adenoma								
		0/50 (0%) 0/49 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Nose: Polyp								
		0/50 (0%) 0/49 (0%)	1/49 (2%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/248 (0.4%)	Mean 0.41%	SD 0.91%	Total	0/250 (0%)	Mean 0%	SD 0%
Oral Cavity (Oral Mucos Papilloma Squamous o	sa, Tongue, Phar	ynx, Tooth, Gingiva):						
	•	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female #Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma** 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/250 (0%) Mean 0% SD 0% Total 0/250 (0%) Mean 0% SD 0% #Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma (0%)(0%) 0/50 0/50 (0%)0/50 (0%)0/50 (0%)0/50 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 1/250 (0.4%) Mean 0.4% SD 0.89% Total 0/250 (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%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/250 (0%) Mean 0% SD 0% Total 0/250 (0%) Mean 0% SD 0% *Ovary: Cystadenocarcinoma 0/50 0/50 (0%)0/49 (0%)(0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/249 (0%) Mean 0% SD 0% *Ovary: Cystadenoma 1/50 0/49 (0%)2/50 (4%)1/50 (2%)2/50 (4%)**Overall Incidence** Total 6/249 (2.41%) Mean 2.4% SD 1.67%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Male **Female** *Ovary: **Granulosa Cell Tumor Benign** 0/50 (0%)0/49 (0%)1/50 (2%)1/50 (2%)0/50 (0%)**Overall Incidence** Total 2/249 (0.8%) Mean 0.8% SD 1.1% *Ovary: **Granulosa Cell Tumor Malignant** 1/50 (2%)0/49 (0%)0/50 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 1/249 (0.4%) Mean 0.4% SD 0.89% *Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS 1/50 (2%)0/49 (0%)1/50 (2%)(0%) 1/50 (2%)0/50 **Overall Incidence** Total 3/249 (1.2%) Mean 1.2% SD 1.1% *Ovary: **Granulosa-Theca Tumor Malignant** (2%) 0/50 (0%)1/49 0/50 (0%)0/50 (0%)1/50 (2%)**Overall Incidence** Total 2/249 (0.8%) Mean 0.81% SD 1.11% *Ovary: Hemangioma 0/50 (0%)0/49 (0%)0/50 (0%)

0/50

0/249 (0%)

Total

(0%)

0/50

(0%)

SD 0%

Mean 0%

Overall Incidence

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR **Page:** 94

	Male			Female	
*Ovary: Hemangiosarcoma					
			1/50 (2%)	0/49 (0%)	0/50 (0%)
Overall Incidence		Total	0/50 (0%) 1/249 (0.4%)	0/50 (0%) Mean 0.4%	SD 0.89%
*Ovary: Luteoma					
Luteoma			0/50 (0%) 0/50 (0%)	0/49 (0%) 2/50 (4%)	1/50 (2%)
Overall Incidence		Total	3/249 (1.2%)	Mean 1.2%	SD 1.79%
*Ovary: Sarcoma					
			0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence		Total	0/249 (0%)	Mean 0%	SD 0%
*Ovary: Thecoma Malignant					
, and the second			0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence		Total	0/249 (0%)	Mean 0%	SD 0%
*Ovary: Tubulostromal Adenoma					
			0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence		Total	0/249 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Pancreas: Mast Cell Tumor								
		0/49 (0%) 0/50 (0%)	0/48 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/247 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
*Parathyroid Gland: Adenoma								
		0/27 (0%) 0/28 (0%)	0/40 (0%) 0/36 (0%)	0/34 (0%)		0/27 (0%) 1/35 (3%)	0/38 (0%) 0/36 (0%)	0/26 (0%)
Overall Incidence	Total	0/165 (0%)	Mean 0%	SD 0%	Total	1/162 (0.62%)	Mean 0.57%	SD 1.28%
*Pituitary Gland: Pars Dis Adenoma Overall Incidence	stalis or Unspeci Total	fied Site: 0/49 (0%) 1/50 (2%) 1/249 (0.4%)	0/50 (0%) 0/50 (0%) Mean 0.4%	0/50 (0%) SD 0.89%	Total	9/49 (18%) 8/48 (17%) 28/246 (11.38%)	2/49 (4%) 4/50 (8%) Mean 11.42%	5/50 (10%) SD 5.99%
*Pituitary Gland: Pars Dis Carcinoma	stalis or Unspeci	fied Site:						
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/49 (0%) 3/48 (6%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	3/246 (1.22%)	Mean 1.25%	SD 2.8%
*Pituitary Gland: Pars Dis Carcinoma or Adenom		fied Site:						
		0/49 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		9/49 (18%) 11/48 (23%)	2/49 (4%) 4/50 (8%)	5/50 (10%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	31/246 (12.6%)	Mean 12.67%	SD 7.75%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Pituitary Gland: Pars Intern Adenoma	nedia:							
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/49 (0%) 0/48 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/246 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Interm								
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/49 (0%) 0/48 (0%)	1/49 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/246 (0.41%)	Mean 0.41%	SD 0.91%
*Pituitary Gland: Pars Interm Carcinoma or Adenoma								
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/49 (0%) 0/48 (0%)	1/49 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/246 (0.41%)	Mean 0.41%	SD 0.91%
Pituitary Gland: Pars Intern Schwannoma Malignant								
		0/49 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		0/49 (0%) 0/48 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/246 (0%)	Mean 0%	SD 0%
*Prostate: Mast Cell Tumor								
		0/49 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%				

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Salivary Glands: Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%
Salivary Glands: Carcinoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%
Salivary Glands: Carcinoma or Adenoma		•••••						
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/249 (0.4%)	1/50 (2%) Mean 0.4%	SD 0.89%
Salivary Glands: Hemangiosarcoma								
g		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/249 (0%)	0/50 (0%) Mean 0%	SD 0%
Salivary Glands: Mast Cell Tumor								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/249 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Salivary Glands: Myxosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%
#Seminal Vesicle: Adenoma								
		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%				
#Seminal Vesicle: Fibroma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%				
#Skeletal Muscle: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Skeletal Muscle: Osteosarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male			Female	
#Skeletal Muscle: Rhabdomyosarcoma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 1/50 (2%)	(0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 2/50 (4%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4% SD 0.899	% Total	2/250 (0.8%)	Mean 0.8%	SD 1.79%
#Skeletal Muscle: Rhabdomyosarcoma or R	habdomyoma						
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 1/50 (2%)	(0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 2/50 (4%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4% SD 0.899		2/250 (0.8%)		SD 1.79%
#Skeletal Muscle: Sarcoma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	(0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Skin: Basal Cell Carcinoma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	(0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Skin: Basal Cell Carcinoma or E	3asosquamou:	s Tumor (malignant or N	DS)				
	-	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	(0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Skin:								
Basal Cell Carcinoma, NOS), or Trichoepitheli		oma, Basosquamous Tur	mor (benign, malignant	or				
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/250 (0.4%)	0/50 (0%) Mean 0.4%	SD 0.89%
::::::::::::::::::::::::::::::::::::::								
Basal or Sq. Cell Carcin Adenoma, Papilloma, S	noma, Carcinom Sg Papilloma, Ke	a, Basosq. Tumor (M or E ratoacanthoma, Trichoer	3), Basal Cell Adenoma oithelioma	a,				
, ., .		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	1/50 (2%)
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
verall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%
Skin: Fibroma								
1 Ibi oilia		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	,		0/50 (0%)	0/50 (0%)	, ,
verall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Skin:								
Fibroma, Fibrosarcoma Hemangiopericytoma	a, Sarcoma, Myx	oma, Myxosarcoma, Mali	gnant Fibrous Histiocy	rtoma, or				
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	1/50 (2%)			0/50 (0%)	1/50 (2%)	
verall Incidence	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.79%
Skin:								
Fibroma, Fibrosarcoma	a, Sarcoma, Myx	oma, Myxosarcoma, or M	•	•		0/50 (40%)	0.50	2/22 (221)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/50 (2%)	1/50 (2%) Mean 0.8%	SD 1.1%	Total	0/50 (0%) 3/250 (1.2%)	1/50 (2%) Mean 1.2%	SD 1.79%
		2/250 (0.8%)				` '	Mean 1.2%	SD 1.79%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Skin: Fibrosarcoma								
		0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Skin:		a, or Malignant Fibrous H						
		0/50 (0%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		2/50 (4%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.79%
Skin: Hemangioma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Skin: Hemangiosarcoma								•••••
		0/50 (0%) 0/50 (0%)	0/50 (0%) 2/50 (4%)	0/50 (0%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	2/50 (4%)
Overall Incidence	Total	2/250 (0.8%)	Mean 0.8%	SD 1.79%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.79%
∜Skin: Keratoacanthoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Vehicle: AIR

Route: INHALATION

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Report Date: 11/01/2019

			Male				Female	
Skin: Lipoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%
Skin: Liposarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
	.	0/50 (0%)	0/50 (0%)	00.00/	-	0/50 (0%)	0/50 (0%)	00.00/
verall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Skin: Malignant Fibrous Histic	ocytoma							
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
	.	0/50 (0%)	1/50 (2%)	OD 0.000/	-	0/50 (0%)	0/50 (0%)	OD 0.000/
verall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
Skin: Melanoma Benign								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
verall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
Skin: Neurofibrosarcoma or S								
	,	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin:								
Neurofibrosarcoma, Neuro	fibroma, or S	Schwannoma (benign, ma	lignant or NOS)					
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (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%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (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%)
Overall Incidence	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/250 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Sarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%
#Skin: Schwannoma Malignant								
_		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male			Female			
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma									
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/5 0/50 (0%)	50 (0%)		
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0)% T	otal 1/250 (0.4%)	Mean 0.4% S	D 0.89%		
#Skin: Squamous Cell Papillo	ma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)) (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/5 0/50 (0%)	50 (2%)		
Overall Incidence	Total	0/250 (0%)	Mean 0% SD ()% T	otal 1/250 (0.4%)	,	D 0.89%		
#Skin: Squamous Cell Papillo	ma or Papilloma								
.,		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/5 0/50 (0%)	50 (2%)		
Overall Incidence	Total	0/250 (0%)	Mean 0% SD (otal 1/250 (0.4%)	Mean 0.4% S	D 0.89%		
#Skin:		quamous Cell Carcinoma							
	-	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/5 0/50 (0%)	50 (2%)		
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0)% T	otal 1/250 (0.4%)	Mean 0.4% S	D 0.89%		
#Skin: Squamous Cell Papillo	ma, Papilloma, o	r Keratoacanthoma							
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%)	0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/5 0/50 (0%)	50 (2%)		
Overall Incidence	Total	0/250 (0%)	Mean 0% SD 0)% T	otal 1/250 (0.4%)	Mean 0.4% S	D 0.89%		

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Length of Study: CHRONIC

Report Date: 11/01/2019

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			Male				Female			
#Spinal Cord: Schwannoma Malignant										
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%		
Spleen: Hemangiosarcoma										
		2/49 (4%) 0/49 (0%)	0/48 (0%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	1/50 (2%)		
Overall Incidence	Total	3/246 (1.22%)	Mean 1.22%	SD 1.82%	Total	2/250 (0.8%)	Mean 0.8%	SD 1.1%		
#Stomach, Forestomach: Mast Cell Tumor Malignant										
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%		
Stomach, Forestomach: Squamous Cell Carcinoma										
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%		
#Stomach, Forestomach: Squamous Cell Carcinoma o	or Papillom	na Squamous						•••••		
	-	1/50 (2%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		1/50 (2%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	3/250 (1.2%)	Mean 1.2%	SD 1.1%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.1%		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Stomach, Forestomach: Squamous Cell Papilloma								
		1/50 (2%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		1/50 (2%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
Overall Incidence	Total	3/250 (1.2%)	Mean 1.2%	SD 1.1%	Total	3/250 (1.2%)	Mean 1.2%	SD 1.1%
#Stomach, Glandular: Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Carcinoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Carcinoma or Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
Testis: Adenoma								
		0/49 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%				

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR Page: 107

Report Date: 11/01/2019

			Male				Female	
*Testis: Hemangioma								
-		0/49 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/248 (0%)	Mean 0%	SD 0%				
*Thymus: Thymoma Benign								
		0/41 (0%) 0/44 (0%)	0/43 (0%) 0/48 (0%)	0/41 (0%)		0/47 (0%) 0/4 0/48 (0%) 0/5	` '	0/44 (0%)
Overall Incidence	Total	0/217 (0%)	Mean 0%	SD 0%	Total	0/236 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma NOS								
		0/41 (0%) 0/44 (0%)	0/43 (0%) 0/48 (0%)	0/41 (0%)		1/47 (2%) 0/4 0/48 (0%) 0/5	` '	0/44 (0%)
Overall Incidence	Total	0/217 (0%)	Mean 0%	SD 0%	Total	1/236 (0.42%) M	ean 0.43%	SD 0.95%
*Thymus: Thymoma: Benign, Mal								
		0/41 (0%) 0/44 (0%)	0/43 (0%) 0/48 (0%)	0/41 (0%)		1/47 (2%) 0/4 0/48 (0%) 0/5	` '	0/44 (0%)
Overall Incidence	Total	0/217 (0%)	Mean 0%	SD 0%	Total	1/236 (0.42%) M	ean 0.43%	SD 0.95%
*Thyroid Gland: C-Cell: Adenoma								
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/48 (0%) 0/5 0/50 (0%) 0/5	` '	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/248 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Report Date: 11/01/2019

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Species: MICE Strain: B6C3F1/N

Vehicle: AIR

			Male				Female	
*Thyroid Gland: C-Cell: Carcinoma								
		0/49 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/249 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 1/248 (0.4%)	0/50 (0%) Mean 0.4%	SD 0.89%
Thyroid Gland: C-Cell: Carcinoma or Adenoma								
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/48 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/248 (0.4%)	Mean 0.4%	SD 0.89%
Thyroid Gland: Follicular Ce Adenoma								
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 0/249 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/248 (0.4%)	0/50 (0%) Mean 0.4%	SD 0.89%
Thyroid Gland: Follicular Ce Carcinoma or Adenoma	II:							
		0/49 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/48 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	1/248 (0.4%)	Mean 0.4%	SD 0.89%
Tongue: Squamous Cell Carcinoma	or Papillom	a Squamous						
•	•	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Tongue: Squamous Cell Papilloma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/250 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
#Tooth: Odontoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
Urinary Bladder: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	1/50 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/249 (0.4%)	Mean 0.4%	SD 0.89%	Total	0/250 (0%)	Mean 0%	SD 0%
Urinary Bladder: Mast Cell Tumor					•••••			
		0/50 (0%) 0/50 (0%)	0/49 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/249 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%
tUterus: Adenoma								
						0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence					Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

	Male	Female	
#Uterus: Fibroma			
1 Mona		0/50 (0%) 0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	,
Overall Incidence	Total	0/250 (0%) Mean 0%	SD 0%
#Uterus: Granular Cell Tumor Benign			
•		1/50 (2%) 0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	1/250 (0.4%) Mean 0.4%	SD 0.89%
#Uterus: Hemangioma			
		0/50 (0%) 0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	0/250 (0%) Mean 0%	SD 0%
#Uterus: Hemangiosarcoma			
•		1/50 (2%) 0/50 (0%)	1/50 (2%)
		1/50 (2%) 1/50 (2%)	
Overall Incidence	Total	4/250 (1.6%) Mean 1.6%	SD 0.89%
#Uterus: Leiomyoma			
-		0/50 (0%) 0/50 (0%)	1/50 (2%)
		0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	1/250 (0.4%) Mean 0.4%	SD 0.89%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date: 11/01/2019

					Male						Fe	emale		
#Uterus: Polyp Stromal														
									4/50	` ,	0/50	(0%)	0/50	(0%)
Overall Incidence								Total	1/50 5/250	` ,	0/50 Mear	(0%) n 2%	SD 3.	.46%
Uterus: Sarcoma Stromal														
									0/50 0/50	` '	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence								Total	0/250	. ,	Mear	0%	SD	0%
Uterus: Sarcoma Stromal or Polyp S														
									4/50	` ,	0/50	(0%)	0/50	(0%)
Overall Incidence								Total	1/50 5/250	, ,	0/50 Mear	(0%) n 2%	SD 3.	46%
Vagina: Hemangioma														
Ū									0/50 0/50	` ,	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence								Total	0/250	` '	Mear		SD	
Zymbal's Gland: Carcinoma														
			(0%) (0%)	0/50 0/50	(0%) (0%)	0/50	(0%)		0/50 0/50	` ,	0/50 0/50	(0%) (0%)	0/50	(0%)
Overall Incidence	Total	0/250 (0%)	` '	Mean	` ,	SD 0%		Total	0/250	` ,	Mear	` '	SD	0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Male							Female	
#Zymbal's Gland: Carcinoma or Adenoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/250 (0%)	Mean 0%	SD 0%	Total	0/250 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

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 Battelle Columbus Laboratory	051098702 051026002	08/17/10 07/16/10	730 727	50(1) 49(1)	44(722) 34(691)	48.9 47.6	Dibutyl Phthalate 2-Hydroxy-4-methoxybenzophenone
					Female		
Battelle Columbus Laboratory Battelle Columbus Laboratory	051098702 051026002	08/16/10 07/15/10	729 726	50(4) 50(4)	42(713) 42(716)	51.5 54.7	Dibutyl Phthalate 2-Hydroxy-4-methoxybenzophenone

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 114

	Male Female						13/50 (26%) 17/50 (34%) % Total 30/100 (30%) Mean 30% SD 5 19/50 (38%) 11/50 (22%) % Total 30/100 (30%) Mean 30% SD 1 28/50 (56%) 25/50 (50%) % Total 53/100 (53%) Mean 53% SD 4 1/50 (2%) 2/50 (4%) % Total 3/100 (3%) Mean 3% SD 6		
#All Organs: Benign Tumors									
		26/50 (52%)	28/49 (57%)			13/50 (26%)	17/50 (34%)		
Overall Incidence	Total	54/99 (54.55%)	Mean 54.57%	SD 3.64%	Total	30/100 (30%)	Mean 30%	SD 5.66%	
#All Organs: Malignant Tumors									
		19/50 (38%)	19/49 (39%)			19/50 (38%)	11/50 (22%)		
Overall Incidence	Total	38/99 (38.38%)	Mean 38.39%	SD 0.55%	Total	30/100 (30%)	Mean 30%	SD 11.31%	
#All Organs: Malignant and Benign Tu	umors	33/50 (66%)	37/49 (76%)			28/50 (56%)	25/50 (50%)		
Overall Incidence	Total	70/99 (70.71%)	Mean 70.76%	SD 6.72%		53/100 (53%)	` '	SD 4.24%	
#All Organs: Hemangioma		0/50 (0%)	1/49 (2%)				2/50 (4%)		
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%		3/100 (3%)	Mean 3%	SD 1.41%	
#All Organs: Hemangiosarcoma									
		3/50 (6%)	1/49 (2%)			` '	` ,		
Overall Incidence	Total	4/99 (4.04%)	Mean 4.02%	SD 2.8%	Total	3/100 (3%)	Mean 3%	SD 4.24%	
#All Organs: Hemangiosarcoma or He	emangioma						- 1		
	.	3/50 (6%)	2/49 (4%)	00 4 000/	-	4/50 (8%)	2/50 (4%)	00.000/	
Overall Incidence	Total	5/99 (5.05%)	Mean 5.04%	SD 1.36%	Total	6/100 (6%)	Mean 6%	SD 2.83%	

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED **Page:** 115

			Male Female				1/50 (2%) 1/50 (2%) Total 2/100 (2%) Mean 2% SD 09 11/50 (22%) 5/50 (10%) Total 16/100 (16%) Mean 16% SD 8.4 0/50 (0%) 0/50 (0%) Total 0/100 (0%) Mean 0% SD 09 Total 0/100 (0%) Mean 0% SD 09 0/50 (0%) 0/50 (0%) Total 0/100 (0%) Mean 0% SD 09			
#All Organs: Histiocytic Sarcoma										
		2/50 (4%)	0/49 (0%)			1/50 (2%)	1/50 (2%)			
Overall Incidence	Total	2/99 (2.02%)	Mean 2%	SD 2.83%	Total	2/100 (2%)	Mean 2%	SD 0%		
#All Organs: Malignant Lymphoma: His				II Tyne						
Manghant Lymphoma. The	sticcytic, Lyii	4/50 (8%)	3/49 (6%)	Пурс		11/50 (22%)	5/50 (10%)			
Overall Incidence	Total	7/99 (7.07%)	Mean 7.06%	SD 1.33%	Total	` ,	` '	SD 8.49%		
#All Organs: Malignant Schwannoma										
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%		` '		SD 0%		
#All Organs: Osteosarcoma										
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%		(/		SD 0%		
#All Organs: Osteosarcoma or Osteom										
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
*Adrenal Cortex: Adenoma										
		0/50 (0%)	1/48 (2%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/98 (1.02%)	Mean 1.04%	SD 1.47%	Total	0/100 (0%)	Mean 0%	SD 0%		

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED **Page:** 116

			Male			Female				
*Adrenal Medulla: Pheochromocytoma Benigr	า									
		0/50 (0%)	1/48 (2%)			0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	1/98 (1.02%)	Mean 1.04%	SD 1.47%	Total	0/99 (0%)	Mean 0%	SD 0%		
*Adrenal Medulla: Pheochromocytoma Malign	ant									
, ,		0/50 (0%)	0/48 (0%)			0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%		
*Adrenal Medulla: Pheochromocytoma: Benig	n, Complex	x, Malignant, NOS 0/50 (0%)	1/48 (2%)			0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	1/98 (1.02%)	Mean 1.04%	SD 1.47%	Total	0/99 (0%)	Mean 0%	SD 0%		
#Blood Vessel: Hemangioma		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
#Blood Vessel: Hemangiosarcoma			•••••							
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
*Bone Marrow: Hemangiosarcoma		2/-2 (22)				(00)	(201)			
Occupation of desired	T-1-1	0/50 (0%)	0/47 (0%)	OD 00/	T-1-1	0/50 (0%)	0/49 (0%)	OD 00/		
Overall Incidence	Total	0/97 (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

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

Page: 117

Report Date: 11/01/2019

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Male **Female** *Bone Marrow: **Mast Cell Tumor Malignant** 0/50 (0%)1/47 (2%)0/50 (0%)0/49 (0%)**Overall Incidence** Total 1/97 (1.03%) Mean 1.06% SD 1.5% Total 0/99 (0%) Mean 0% SD 0% *Bone Marrow: Sarcoma 0/50 (0%)0/47 (0%)0/50 (0%)0/49 (0%)**Overall Incidence** Total 0/97 (0%) Mean 0% SD 0% Total 0/99 (0%) Mean 0% SD 0% #Bone: **Fibroma** 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Bone: Hemangioma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Bone: Hemangiosarcoma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Bone: Osteosarcoma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% 0/100 (0%) Mean 0% SD 0% Total

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 118

			Male				Female	
#Bone: Osteosarcoma or Osteoma		0/50 (00)	0/40 (00%)			0/50 (00/)	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Bone: Sarcoma		0/50 (00/)	0/40 (00/)			0(50 (00))	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
*Clitoral/Preputial Gland: Mast Cell Tumor		0/50 (0%)	0/40 (00/)			0/50 (0%)	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Coagulating Gland: Granular Cell Tumor		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Sarcoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
*Epididymis: Mast Cell Tumor		0/50 (0%)	0/49 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%				

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED **Page:** 119

		Male Female					3/50 (6%) 1/50 (2%) SD 4.42% Total 4/100 (4%) Mean 4% SD 0/50 (0%) 1/50 (2%) SD 0.03% Total 1/100 (1%) Mean 1% SD 3/50 (6%) 2/50 (4%) SD 4.44% Total 5/100 (5%) Mean 5% SD 0/50 (0%) 0/50 (0%) SD 0/50 (0%) Mean 0% SE				
#Harderian Gland: Adenoma											
		3/50 (6%)	6/49 (12%)			3/50 (6%)	1/50 (2%)				
Overall Incidence	Total	9/99 (9.09%)	Mean 9.12%	SD 4.42%	Total	4/100 (4%)	Mean 4%	SD 2.83%			
#Harderian Gland: Carcinoma											
		1/50 (2%)	1/49 (2%)			` '	1/50 (2%)				
Overall Incidence	Total	2/99 (2.02%)	Mean 2.02%		Total	1/100 (1%)	Mean 1%	SD 1.41%			
#Harderian Gland: Carcinoma or Adenoma											
		4/50 (8%)	7/49 (14%)			` '	` ,				
Overall Incidence	Total	11/99 (11.11%)	Mean 11.14%			, ,		SD 1.41%			
#Harderian Gland: Mast Cell Tumor		0/50 (0%)	0/49 (0%)								
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	, ,	` ,	SD 0%			
'Heart: Hemangiosarcoma											
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%			
#Intestine Large: Cecum: Leiomyosarcoma											
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/99 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 120

			Male				Female	
#Intestine Small: Duodenum: Adenoma								
Overell Incidence	Total	0/50 (0%)	0/49 (0%)	SD 00/	Total	0/50 (0%)	0/50 (0%)	CD 00/
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Carcinoma								
	.	0/50 (0%)	0/49 (0%)	00.00/	+	0/50 (0%)	0/50 (0%)	05.00/
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Polyp Adenomatous								
		0/50 (0%)	0/49 (0%)	05.00/		0/50 (0%)	0/50 (0%)	05 00/
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Ileum: Adenoma		0/50 (00)	0/40 /00/			0/50 (00/)	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Jejunum: Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Carcinoma								
		1/50 (2%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 121

			Male	Male Female				
#Intestine Small: Jejunum Leiomyosarcoma	:							
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum Mast Cell Tumor	:							
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Adenoma	pecified:							
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma	pecified:							
	-	1/50 (2%)	0/49 (0%)	05 4 440/	-	0/50 (0%)	0/50 (0%)	05.00/
Overall Incidence	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma or Adenoma								
		1/50 (2%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Leiomyosarcoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 122

			Male				Female	
#Intestine Small: Site Unsp Mast Cell Tumor	ecified:							
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Site Unsp Polyp Adenomatous	ecified:							
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
*Islets, Pancreatic: Adenoma								
Overall Incidence	Total	0/50 (0%) 1/97 (1.03%)	1/47 (2%) Mean 1.06%	SD 1.5%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Islets, Pancreatic: Carcinoma						(20)		
Overall Incidence	Total	0/50 (0%) 0/97 (0%)	0/47 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Islets, Pancreatic: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 1/97 (1.03%)	1/47 (2%) Mean 1.06%	SD 1.5%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Kidney: Renal Tubule: Adenoma								
Overall Incidence	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Page: 123

Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Contract/Lab: All Laboratories

			Male				Female	
*Kidney: Renal Tubule: Carcinoma		0/50 (0%)	0/48 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Kidney: Renal Tubule: Carcinoma or Adenoma		0/50 (0%)	0/48 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Kidney: Renal Tubule: Hemangiosarcoma		- (a)	(00)				(00)	
Overall Incidence	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Kidney: Renal Tubule: Mast Cell Tumor			2/42 (22/)			0/50 (00/)	0/40 (00/)	
Overall Incidence	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Kidney: Renal Tubule: Renal Mesenchymal Tumor								
Overall Incidence	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
*Liver: Cholangiocarcinoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 124

Report Date: 11/01/2019

Route: ORAL

Vehicle: FEED

			Male				Female	
*Liver: Hemangioma		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
*Liver: Hemangiosarcoma		3/50 (6%)	0/40 (09/)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	3/99 (3.03%)	0/49 (0%) Mean 3%	SD 4.24%	Total	0/100 (0%)	Mean 0%	SD 0%
*Liver: Hepatoblastoma								
Overall Incidence	Total	0/50 (0%) 1/99 (1.01%)	1/49 (2%) Mean 1.02%	SD 1.44%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
*Liver: Hepatocellular Adenoma		18/50 (36%)	21/49 (43%)			3/50 (6%)	3/50 (6%)	
Overall Incidence	Total	39/99 (39.39%)	Mean 39.43%	SD 4.85%	Total	6/100 (6%)	Mean 6%	SD 0%
*Liver: Hepatocellular Carcinoma								
Overall Incidence	Total	10/50 (20%) 18/99 (18.18%)	8/49 (16%) Mean 18.16%	SD 2.6%	Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%
*Liver: Hepatocellular Carcinoma o		astoma				1/50 (20/)	1/50 (29/)	
Overall Incidence	Total	10/50 (20%) 18/99 (18.18%)	8/49 (16%) Mean 18.16%	SD 2.6%	Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 125

Report Date: 11/01/2019

Route: ORAL

Vehicle: FEED

			Male			·	Female	
*Liver: Hepatocellular Carcinor	ma or Hepatoce	ellular Adenoma 24/50 (48%)	26/49 (53%)			4/50 (8%)	4/50 (8%)	
Overall Incidence	Total	50/99 (50.51%)	Mean 50.53%	SD 3.58%	Total	8/100 (8%)	Mean 8%	SD 0%
*Liver: Hepatocellular Carcinor	ma, Hepatocellı	ular Adenoma, or Hepatol	olastoma					
		24/50 (48%)	26/49 (53%)			4/50 (8%)	4/50 (8%)	
Overall Incidence	Total	50/99 (50.51%)	Mean 50.53%	SD 3.58%	Total	8/100 (8%)	Mean 8%	SD 0%
*Liver: Hepatocholangiocarcin	oma	0/50 (0%)	1/49 (2%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/100 (0%)	Mean 0%	SD 0%
*Liver: Mast Cell Tumor		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Lung: Alveolar/Bronchiolar Ac	denoma							
		9/50 (18%)	7/49 (14%)			2/50 (4%)	5/50 (10%)	
Overall Incidence	Total	16/99 (16.16%)	Mean 16.14%	SD 2.63%	Total	7/100 (7%)	Mean 7%	SD 4.24%
*Lung: Alveolar/Bronchiolar Ca	arcinoma	3/50 (6%)	5/49 (10%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	8/99 (8.08%)	Mean 8.1%	SD 2.97%	Total	0/100 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Species: MICE

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Male **Female** *Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma 11/50 (22%)11/49 (22%)2/50 (4%)5/50 (10%) **Overall Incidence** Total 22/99 (22.22%) Mean 22.22% SD 0.32% Total 7/100 (7%) Mean 7% SD 4.24% *Lung: Hemangiosarcoma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% *Lung: **Mast Cell Tumor** 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Lymph Node: Hemangiosarcoma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% **#Lymph Node: Mast Cell Tumor** 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Lymph Node, Mandibular: **Mast Cell Tumor** 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% 0/100 (0%) Mean 0% SD 0% Total

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 127

			Male				Female	
#Lymph Node, Mandibular: Mast Cell Tumor Malignant								
-		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Hemangioma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Hemangiosarcoma								
		0/50 (0%)	0/49 (0%)	05.00/		0/50 (0%)	0/50 (0%)	00.007
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Mast Cell Tumor								
Occupation of the second	T-1-1	0/50 (0%)	0/49 (0%)	OD 00/	T-1-1	0/50 (0%)	0/50 (0%)	00.00/
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Lymph Node, Mesenteric: Mast Cell Tumor Malignant								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Mammary Gland: Adenoma								
		0/50 (0%)	0/49 (0%)			1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	0/99 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: FEED

			Male		Female			
#Mammary Gland: Carcinoma								
Overall Incidence	Total	0/50 (0%) 1/99 (1.01%)	1/49 (2%) Mean 1.02%	SD 1.44%	Total	3/50 (6%) 3/100 (3%)	0/50 (0%) Mean 3%	SD 4.24%
#Mammary Gland: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 1/99 (1.01%)	1/49 (2%) Mean 1.02%	SD 1.44%	Total	4/50 (8%) 5/100 (5%)	1/50 (2%) Mean 5%	SD 4.24%
#Mammary Gland: Fibroma, Fibroadenoma o	r Adenoma					(70)	(20)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%
#Mammary Gland: Fibroma, Fibroadenoma, C	Carcinoma, or		4/40 (20/)			4/50 (99/)	4/50 (20/)	
Overall Incidence	Total	0/50 (0%) 1/99 (1.01%)	1/49 (2%) Mean 1.02%	SD 1.44%	Total	4/50 (8%) 5/100 (5%)	1/50 (2%) Mean 5%	SD 4.24%
#Mesentery: Hemangioma			•••••					
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Mesentery: Hemangiosarcoma			0/10 (05.2)					
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED **Page:** 129

			Male				Female	
#Mesentery: Lipoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Mesentery: Sarcoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
*Nose: Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Nose: Polyp		2(72)	2/12 (221)			27-2 (221)	2/52 (224)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
						` '		
#Oral Cavity (Oral Mucos Papilloma Squamous o		nx, Tooth, Gingiva):						
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Oral Cavity (Oral Mucos Squamous Cell Carcin	sa, Tongue, Phary	nx, Tooth, Gingiva):						
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

			Male				Female	
#Oral Cavity (Oral Mucosa Squamous Cell Carcino		equamous, or Papilloma	0/40 (09/)			0/50 (0%)	0/50 (09/)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Oral Mucosa: Squamous Cell Carcino	ma	0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenocarcinoma								
Overall Incidence					Total	0/48 (0%) 0/96 (0%)	0/48 (0%) Mean 0%	SD 0%
*Ovary: Cystadenoma						3/48 (6%)	4/48 (8%)	
Overall Incidence					Total	7/96 (7.29%)	Mean 7.29%	SD 1.47%
*Ovary: Granulosa Cell Tumor E	Benign							
Overall Incidence					Total	0/48 (0%) 0/96 (0%)	0/48 (0%) Mean 0%	SD 0%
*Ovary: Granulosa Cell Tumor N	<i>l</i> lalignant					0/40 /00/	0/40 /00/	
Overall Incidence					Total	0/48 (0%) 0/96 (0%)	0/48 (0%) Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** *Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS 0/48 (0%)0/48 (0%)**Overall Incidence** Total 0/96 (0%) Mean 0% SD 0% *Ovary: **Granulosa-Theca Tumor Malignant** 0/48 (0%)0/48 (0%)**Overall Incidence** Total 0/96 (0%) Mean 0% SD 0% *Ovary: Hemangioma 0/48 (0%)1/48 (2%)**Overall Incidence** Total 1/96 (1.04%) Mean 1.04% SD 1.47% *Ovary: Hemangiosarcoma 2/48 (4%)0/48 (0%)**Overall Incidence** Total 2/96 (2.08%) Mean 2.08% SD 2.95% *Ovary: Luteoma 0/48 (0%)0/48 (0%)**Overall Incidence** Total 0/96 (0%) Mean 0% SD 0% *Ovary: Sarcoma 0/48 (0%)0/48 (0%)**Overall Incidence** Total Mean 0% SD 0% 0/96 (0%)

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

RAL

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Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

			Male				Female	
Ovary: Thecoma Malignant								
Overall Incidence					Total	0/48 (0%) 0/96 (0%)	0/48 (0%) Mean 0%	SD 0%
Ovary: Tubulostromal Adenon								
						0/48 (0%)	0/48 (0%)	
Overall Incidence					Total	0/96 (0%)	Mean 0%	SD 0%
Pancreas: Mast Cell Tumor								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
Parathyroid Gland: Adenoma								
		0/40 (0%)	0/32 (0%)			0/43 (0%)	0/21 (0%)	
verall Incidence	Total	0/72 (0%)	Mean 0%	SD 0%	Total	0/64 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Dis Adenoma		fied Site:					•••••	
		0/48 (0%)	0/45 (0%)			1/49 (2%)	0/47 (0%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	1/96 (1.04%)	Mean 1.02%	SD 1.44%
Pituitary Gland: Pars Dis Carcinoma		fied Site:						
		0/48 (0%)	0/45 (0%)			0/49 (0%)	0/47 (0%)	
Overall Incidence	Total	0/93 (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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

			Male				Female	
*Pituitary Gland: Pars Dist Carcinoma or Adenoma		fied Site:						
		0/48 (0%)	0/45 (0%)			1/49 (2%)	0/47 (0%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	1/96 (1.04%)	Mean 1.02%	SD 1.44%
*Pituitary Gland: Pars Inte Adenoma	rmedia:							
		0/48 (0%)	0/45 (0%)			0/49 (0%)	1/47 (2%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	1/96 (1.04%)	Mean 1.06%	SD 1.5%
*Pituitary Gland: Pars Inte Carcinoma	rmedia:							
		0/48 (0%)	0/45 (0%)			0/49 (0%)	0/47 (0%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	0/96 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Inte Carcinoma or Adenoma	rmedia:							
		0/48 (0%)	0/45 (0%)			0/49 (0%)	1/47 (2%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	1/96 (1.04%)	Mean 1.06%	SD 1.5%
*Pituitary Gland: Pars Inte Schwannoma Malignant	rmedia:							
		0/48 (0%)	0/45 (0%)			0/49 (0%)	0/47 (0%)	
Overall Incidence	Total	0/93 (0%)	Mean 0%	SD 0%	Total	0/96 (0%)	Mean 0%	SD 0%
*Prostate: Mast Cell Tumor								
		0/50 (0%)	0/49 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%				

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 134

			Male				Female	
*Salivary Glands: Adenoma								
		0/49 (0%)	0/49 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
*Salivary Glands: Carcinoma								
• " "	.	0/49 (0%)	0/49 (0%)	05.00/	-	0/50 (0%)	0/49 (0%)	OD 00/
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
*Salivary Glands: Carcinoma or Adenoma		0/40 (00/)	0/40 /00/			0/50 (004)	0/40 (00/)	
Overall Incidence	Total	0/49 (0%) 0/98 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
		, ,	wiean 0%	3D 0%	ı olal	0/99 (0%)		SD 0%
*Salivary Glands: Hemangiosarcoma								
Overall Incidence	Total	0/49 (0%) 0/98 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%
Overall incidence	10tai	0/96 (0%)	iviean 0%	3D 0%	ı olal	0/99 (0%)	wean 0%	3D 0%
*Salivary Glands: Mast Cell Tumor								
		0/49 (0%)	0/49 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/98 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
*Salivary Glands: Myxosarcoma		0.112					(20)	
Occupation of decision	Taral	0/49 (0%)	0/49 (0%)	00.00/	T-1-1	0/50 (0%)	0/49 (0%)	OD 00/
Overall Incidence	Total	0/98 (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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 135

			Male				Female	
#Seminal Vesicle: Adenoma								
		0/50 (0%)	0/49 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%				
#Seminal Vesicle: Fibroma								
		0/50 (0%)	0/49 (0%)	05.00/				
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%				
#Skeletal Muscle: Hemangiosarcoma		2(22 (224)	2/12 (22)			(70)	2/52 (221)	
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%
Overall incidence		, ,	iviean 0%			, ,		
#Skeletal Muscle: Osteosarcoma								
• " ' '	-	0/50 (0%)	0/49 (0%)	05.00/	-	0/50 (0%)	0/50 (0%)	00.00/
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Skeletal Muscle: Rhabdomyosarcoma								
		0/50 (0%)	0/49 (0%)			1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 0%
#Skeletal Muscle: Rhabdomyosarcoma or Rh	nabdomyoma							
-	-	0/50 (0%)	0/49 (0%)			1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	0/99 (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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Page: 136

Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female #Skeletal Muscle:** Sarcoma 0/50 (0%)0/49 (0%)0/50 (0%)1/50 (2%)**Overall Incidence** Total 0/99 (0%) Mean 0% SD 0% Total 1/100 (1%) Mean 1% SD 1.41% #Skin: **Basal Cell Carcinoma** 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% Total #Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS) 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)**Overall Incidence** 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% Total #Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma 0/50 (0%)0/49 (0%)0/50 (0%)0/50 (0%)0/100 (0%) Overall Incidence Total 0/99 (0%) Mean 0% SD 0% Total Mean 0% SD 0% #Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma 0/50 (0%)0/49 (0%)0/50 0/50 (0%)Overall Incidence Total 0/99 (0%) Mean 0% SD 0% Total 0/100 (0%) Mean 0% SD 0% #Skin: **Fibroma** (0%)(0%)0/50 (0%)0/50 (0%)Mean 0% Mean 0% **Overall Incidence** Total 0/99 (0%) SD 0% Total 0/100 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

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			Male	Female								
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma												
		0/50 (0%)	0/49 (0%)			2/50 (4%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 2.83%				
Skin: Fibroma, Fibrosarcoma	, Sarcoma, Myxo	oma, Myxosarcoma, or Ma	alignant Fibrous Histi	ocytoma								
		0/50 (0%)	0/49 (0%)			2/50 (4%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 2.83%				
#Skin: Fibrosarcoma		•••••										
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
∜Skin: Fibrosarcoma, Sarcoma	ı, Myxosarcoma	, or Malignant Fibrous His	•									
		0/50 (0%)	0/49 (0%)			2/50 (4%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 2.83%				
#Skin: Hemangioma												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
‡Skin: Hemangiosarcoma												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: FEED

			Male				Female	
#Skin: Keratoacanthoma Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Lipoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Liposarcoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Malignant Fibrous Histic	ocytoma	0/50 (0%)	0/49 (0%)			2/50 (4%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	2/100 (2%)	Mean 2%	SD 2.83%
#Skin: Melanoma Benign								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Neurofibrosarcoma or S			0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

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			Male				Female					
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
#Skin: Osteosarcoma												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
#Skin: Pilomatrixoma												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
#Skin: Sarcoma												
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
#Skin: Schwannoma Malignan												
J		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%				
#Skin:												
-	oma, Basal Cell C	Carcinoma, Basosquamou	us Tumor (malignant	or NOS),								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	0/99 (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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 140

Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: FEED

0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%													
	()		#Skin: Squamous Cell Papilloma 0/50 (0%) 0/49 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%)											
• • • • • • • • • • • • • • • • • • • •		SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%								
na														
0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)									
0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%								
, Squamous Cell Carcinoma	a or Keratoacanthom	a		0/50 (0%)	0/50 (0%)									
0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%								
	0/40 (00/)			0(50 (004)	0(50 (00))									
0/50 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%)	0/50 (0%) Mean 0%	SD 0%								
0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)									
0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%								
0/50 (654)	4/40 (00)			0/50 (00/)	0/40 (00%)									
` '	` '	SD 1.47%	Total	` ,	` ,	SD 0%								
	, Squamous Cell Carcinoma	, Squamous Cell Carcinoma or Keratoacanthom	, Squamous Cell Carcinoma or Keratoacanthoma	, Squamous Cell Carcinoma or Keratoacanthoma	, Squamous Cell Carcinoma or Keratoacanthoma	, Squamous Cell Carcinoma or Keratoacanthoma								

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 141 Report Date: 11/01/2019

			Male				Female	
#Stomach, Forestomach: Mast Cell Tumor Malignant								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma	-	1/50 (2%)	2/49 (4%)	CD 4 470/	Total	0/50 (0%)	1/50 (2%)	CD 4 440/
Overall Incidence	Total	3/99 (3.03%)	Mean 3.04%	SD 1.47%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Stomach, Forestomach: Squamous Cell Papilloma		1/50 (2%)	2/49 (4%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	3/99 (3.03%)	Mean 3.04%	SD 1.47%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Stomach, Glandular: Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Stomach, Glandular: Carcinoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 142 Report Date: 11/01/2019

			Male				Female	
#Stomach, Glandular: Carcinoma or Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
*Testis: Adenoma								
Overell Incidence	Total	0/50 (0%)	0/49 (0%)	SD 0%				
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%				
*Testis: Hemangioma		0/50 (0%)	1/49 (2%)					
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%				
*Thymus: Thymoma Benign		0/45 (0%)	0/45 (0%)			0/45 (0%)	0/48 (0%)	
Overall Incidence	Total	0/45 (0%)	Mean 0%	SD 0%	Total	0/43 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma NOS								
•		0/45 (0%)	0/45 (0%)			0/45 (0%)	0/48 (0%)	
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/93 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma: Benign, Malign	ant. NOS		•••••					
,	,	0/45 (0%)	0/45 (0%)			0/45 (0%)	0/48 (0%)	
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/93 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

			Male				Female	
Thyroid Gland: C-Cell: Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/48 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%
Гhyroid Gland: C-Cell: Carcinoma								
		0/50 (0%)	0/49 (0%)			1/50 (2%)	0/48 (0%)	
verall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/98 (1.02%)	Mean 1%	SD 1.41%
Thyroid Gland: C-Cell: Carcinoma or Adenoma			0/40 (00/)			1/50 (20/)	0/49 (00/)	
overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 1/98 (1.02%)	0/48 (0%) Mean 1%	SD 1.41%
		` '			10tai			
Thyroid Gland: Follicular Cell Adenoma	:							
		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/48 (2%)	
verall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/98 (1.02%)	Mean 1.04%	SD 1.47%
Гhyroid Gland: Follicular Cell Carcinoma or Adenoma								
		0/50 (0%)	0/49 (0%)			0/50 (0%)	1/48 (2%)	
verall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/98 (1.02%)	Mean 1.04%	SD 1.47%
Tongue: Squamous Cell Carcinoma o		a Squamous						
		0/50 (0%)	0/49 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (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

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 144

			Male				Female		
#Tongue: Squamous Cell Papilloma		0/50 (00/)	0(40 (00()			0/50 (00/)	0/50 (00/)		
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Tooth: Odontoma									
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Urinary Bladder: Hemangiosarcoma									
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/48 (0%) 0/98 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Urinary Bladder: Mast Cell Tumor									
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/48 (0%) 0/98 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Uterus: Adenoma		•••••							
Overall Incidence					Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Uterus: Fibroma									
Overall Incidence					Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Page: 145

Report Date: 11/01/2019

Route: ORAL Vehicle: FEED

Length of Study: CHRONIC

Contract/Lab: All Laboratories

	Male			Female	
#Uterus: Granular Cell Tumor Benign					
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Uterus: Hemangioma					
-			0/50 (0%)	0/50 (0%)	
Overall Incidence		Total	0/100 (0%)	Mean 0%	SD 0%
#Uterus: Hemangiosarcoma					
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Uterus: Leiomyoma					
•		T-(-1	1/50 (2%)	0/50 (0%)	00 4 440/
Overall Incidence		Total	1/100 (1%)	Mean 1%	SD 1.41%
#Uterus: Polyp Stromal					
			0/50 (0%)	1/50 (2%)	
Overall Incidence		Total	1/100 (1%)	Mean 1%	SD 1.41%
#Uterus: Sarcoma Stromal					
			0/50 (0%)	0/50 (0%)	00.00
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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: FEED Page: 146 Report Date: 11/01/2019

			Male					
#Uterus: Sarcoma Stromal or Polyp S	Stromal					2/52 (224)		
Overall Incidence					Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%
#Vagina: Hemangioma								
Overall Incidence					Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%
#Zymbal's Gland: Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Zymbal's Gland: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 147

Report Date: 11/01/2019

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	050303804	01/17/12	730	50(1)	26(683)	54.6	Sodium Tungstate Dihydrate
					Female		
Battelle Columbus Laboratory	050303804	01/16/12	729	50(4)	38(700)	61.6	Sodium Tungstate Dihydrate

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 148 Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

			Male			Female			
#All Organs: Benign Tumors		31/50 (62%)				20/50 (40%)			
Overall Incidence	Total	31/50 (62%)	Mean 62%	SD 0%	Total	20/50 (40%)	Mean 40%	SD 0%	
#All Organs: Malignant Tumors		00/50 (000)				45/50 (000)			
Overall Incidence	Total	30/50 (60%) 30/50 (60%)	Mean 60%	SD 0%	Total	15/50 (30%) 15/50 (30%)	Mean 30%	SD 0%	
#All Organs: Malignant and Benign To	umors	42/50 (84%)				32/50 (64%)			
Overall Incidence	Total	42/50 (84%)	Mean 84%	SD 0%	Total	32/50 (64%)	Mean 64%	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									
		5/50 (10%)				1/50 (2%)			
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%	
#All Organs: Hemangiosarcoma or He		6/50 (12%)				1/50 (2%)			
Overall Incidence	Total	6/50 (12%)	Mean 12%	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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page:** 149

			Male				Female			
#All Organs: Histiocytic Sarcoma										
•		1/50 (2%)				2/50 (4%)				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%		
#All Organs:										
Malignant Lymphoma: Histi	ocytic, Lym	phocytic, Mixed, NOS, or 5/50 (10%)	Undifferentiated Ce	II Type		4/50 (8%)				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	4/50 (8%)	Mean 8%	SD 0%		
#All Organs: Malignant Schwannoma										
		1/50 (2%)				0/50 (0%)				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
#All Organs: Osteosarcoma						0/50 (00)				
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
#All Organs: Osteosarcoma or Osteoma										
		0/50 (0%)				0/50 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
*Adrenal Cortex: Adenoma										
		1/50 (2%)				0/50 (0%)				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 150

Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

			Male			Female			
*Adrenal Medulla: Pheochromocytoma Be	nign	0/49 (0%)				0/50 (0%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Adrenal Medulla: Pheochromocytoma Ma	llignant	0(40 (00))				0/50 (00/)			
Overall Incidence	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Adrenal Medulla: Pheochromocytoma: Be	enign, Complex,	Malignant, NOS 0/49 (0%)				0/50 (0%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Blood Vessel: 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%	
#Blood Vessel: 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 Marrow: Hemangiosarcoma									
Overall Incidence	Total	2/50 (4%) 2/50 (4%)	Mean 4%	SD 0%	Total	0/48 (0%) 0/48 (0%)	Mean 0%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER

			Male				Female			
*Bone Marrow: Mast Cell Tumor Maligna	ant	4/50 (00()				0/40 (00/)				
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/48 (0%) 0/48 (0%)	Mean 0%	SD 0%		
*Bone Marrow: Sarcoma		0/50 (0%)				0/48 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/48 (0%)	Mean 0%	SD 0%		
#Bone: Fibroma										
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
#Bone: 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%		
#Bone: Hemangiosarcoma										
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
#Bone: Osteosarcoma										
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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 152

Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

			Male			Female			
#Bone: Osteosarcoma or Osteon	na								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
		` '				` '			
#Bone: Sarcoma									
	-	0/50 (0%)		OD 00/	T	0/50 (0%)		OD 00/	
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Clitoral/Preputial Gland: Mast Cell Tumor									
		0/49 (0%)				0/49 (0%)			
Overall Incidence	Total	0/49 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%	
#Coagulating Gland: Granular Cell Tumor									
Overell Institutes	Tatal	0/50 (0%)	Mana 00/	CD 00/	Tatal	0/50 (0%)	Mana 00/	CD 00/	
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Coagulating Gland: Sarcoma									
		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Epididymis: Mast Cell Tumor		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date: 11/01/2019

Page: 153

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

			Male			Female			
#Harderian Gland: Adenoma		2/50 (4%)				1/50 (2%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%	
#Harderian Gland: Carcinoma		4/50 (00)				0/50 (00)			
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Harderian Gland: Carcinoma or Adenoma		3/50 (6%)				1/50 (2%)			
Overall Incidence	Total	3/50 (6%)	Mean 6%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%	
#Harderian Gland: Mast Cell Tumor		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: Hemangiosarcoma									
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	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%	

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 154

				Male			Female			
#Intestine Small: Duodenum: Adenoma										
			(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Duodenum: Carcinoma										
		0/50	(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Duodenum: Polyp Adenomatous										
			(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Ileum: Adenoma		- 1								
Overall Incidence	Total		(0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Maan 00/	SD 0%	
Overali incidence		0/50 (0%)					0/50 (0%)	Mean 0%	3D 0%	
#Intestine Small: Jejunum: Adenoma										
		0/50	(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Jejunum: Carcinoma			(00()				0(50 (00))			
Overall Incidence	Total		(0%)	Maan 00/	CD 00/	Total	0/50 (0%)	Maan 00/	CD 00/	
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

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 155

				Male			Female			
#Intestine Small: Jejunum: Leiomyosarcoma										
Overall Incidence	Total	0/50 (0/50 (0%)	0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Jejunum: Mast Cell Tumor										
Overall Incidence	Total	0/50 (0/50 (0%)	0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Site Unspec Adenoma	cified:									
Overall Incidence	Total	0/50 (0/50 (0%)	0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Site Unspec Carcinoma										
Overall Incidence	Total	0/50 (0%)	0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Site Unspec Carcinoma or Adenoma										
Overall Incidence	Total	0/50 (0/50 (0%)	0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Site Unspec										
Overall Incidence	Total	0/50 (0/50 (0%)	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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 156

			Male			Female			
#Intestine Small: Site Uns Mast Cell Tumor	pecified:								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Intestine Small: Site Uns	pecified:								
Folyp Adenomatous		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Islets, Pancreatic: Adenoma		4/47 (00/)				0/40 (00/)			
Overall Incidence	Total	1/47 (2%) 1/47 (2.13%)	Mean 2.13%	SD 0%	Total	0/48 (0%) 0/48 (0%)	Mean 0%	SD 0%	
*Islets, Pancreatic: Carcinoma		0/47 (0%)				0/48 (0%)			
Overall Incidence	Total	0/47 (0%)	Mean 0%	SD 0%	Total	0/48 (0%)	Mean 0%	SD 0%	
*Islets, Pancreatic: Carcinoma or Adenoma									
		1/47 (2%)		05		0/48 (0%)		25	
Overall Incidence	Total	1/47 (2.13%)	Mean 2.13%	SD 0%	Total	0/48 (0%)	Mean 0%	SD 0%	
*Kidney: Renal Tubule: Adenoma		0/50 (631)				0/50 (00/)			
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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 157

			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	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Kidney: Renal Tubule: Hemangiosarcoma		1/50 (20/)				0/50 (09/)			
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Kidney: Renal Tubule: Mast Cell Tumor		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: Renal Mesenchymal Tumor		0/50 (0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Liver: Cholangiocarcinoma		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 158

			Male			Female			
*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: Hemangiosarcoma									
		2/50 (4%)				0/50 (0%)			
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Liver: Hepatoblastoma		4/50 (8%)				0/50 (0%)			
Overall Incidence	Total	4/50 (8%)	Mean 8%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
*Liver: Hepatocellular Adenoma		26/50 (52%)				11/50 (22%)			
Overall Incidence	Total	26/50 (52%)	Mean 52%	SD 0%	Total	11/50 (22%)	Mean 22%	SD 0%	
*Liver: Hepatocellular Carcinoma						•••••			
		15/50 (30%)				2/50 (4%)			
Overall Incidence	Total	15/50 (30%)	Mean 30%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%	
*Liver: Hepatocellular Carcinoma o	or Hepatobla								
		17/50 (34%)				2/50 (4%)			
Overall Incidence	Total	17/50 (34%)	Mean 34%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 159

			Male				Female			
*Liver: Hepatocellular Carcino	ma or Hepatocel					(2.20)				
Overall Incidence	Total	33/50 (66%) 33/50 (66%)	Mean 66%	SD 0%	Total	13/50 (26%) 13/50 (26%)	Mean 26%	SD 0%		
*Liver:										
Hepatocellular Carcino	ma, Hepatocellu	lar Adenoma, or Hepatol 34/50 (68%)	blastoma			13/50 (26%)				
Overall Incidence	Total	34/50 (68%)	Mean 68%	SD 0%	Total	13/50 (26%)	Mean 26%	SD 0%		
*Liver: Hepatocholangiocarcin	oma									
Overell Incidence	Tatal	0/50 (0%)	Mana 00/	CD 00/	Total	0/50 (0%)	Mana 00/	SD 0%		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%		0/50 (0%)	Mean 0%	SD 0%		
*Liver: Mast Cell Tumor		0/50 (0%)				0/50 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
*Lung: Alveolar/Bronchiolar A										
		5/50 (10%)				2/50 (4%)				
Overall Incidence	Total	5/50 (10%)	Mean 10%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%		
*Lung: Alveolar/Bronchiolar Ca	arcinoma	2/50 (4%)				2/50 (4%)				
Overall Incidence	Total	2/50 (4%)	Mean 4%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Route: ORAL Vehicle: WATER Page: 160

			Male	Female							
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma 7/50 (14%) 4/50 (8%) 4/50 (8%)											
Overall Incidence	Total	7/50 (14%)	Mean 14%	SD 0%	Total	4/50 (8%)	Mean 8%	SD 0%			
*Lung: 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%			
Lung: Mast Cell Tumor		0/50 (0%)				0/50 (0%)					
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%			
Lymph Node: 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%			
Lymph Node: Mast Cell Tumor											
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%			
#Lymph Node, Mandibular: Mast Cell Tumor											
Occupation of decree	Tatal	0/50 (0%)	Maran 00/	00.00/	Tatal	0/50 (0%)	Maran 00/	05.00/			
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 161

				Male			Female			
#Lymph Node, Mandibular: Mast Cell Tumor Malignant										
Overall Incidence	Total	1/50 1/50 (2%)	(2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Hemangioma			()							
Overall Incidence	Total	0/50 0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Hemangiosarcoma		0/50	(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	` ,	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Mast Cell Tumor			(0%)				0/50 (0%)			
Overall Incidence	Total	0/50 (0%)	` ,	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Mast Cell Tumor Malignant	••••									
Overall Incidence	Total	1/50 1/50 (2%)	(2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
#Mammary Gland: Adenoma	• • • • • • • • • • • • • • • • • • • •									
Overall Incidence	Total	0/50 (0%)	(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

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Page: 162

Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Vehicle: WATER Length of Study: CHRONIC

			Male				Female			
#Mammary Gland: Carcinoma										
		0/50 (0%)				1/50 (2%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%		
#Mammary Gland: Carcinoma or Adenoma		0/50 (0%)				1/50 (2%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%		
#Mammary Gland: Fibroma, Fibroadenoma o	r 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: Fibroma, Fibroadenoma, C						1/50 (2%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%		
#Mesentery: 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%		
#Mesentery: Hemangiosarcoma		1/50 (2%)				0/50 (0%)				
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page:** 163

			Male				Female			
#Mesentery: Lipoma 0/50 (0%)										
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
#Mesentery: Sarcoma										
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Nose: Adenoma		0/50 (09()				0/50 (00()				
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Nose: Polyp		0/50 (0%)				0/50 (0%)				
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
#Oral Cavity (Oral Mucos Papilloma Squamous of		nx, Tooth, Gingiva):								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%		
#Oral Cavity (Oral Mucos Squamous Cell Carcino		nx, Tooth, Gingiva):								
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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

mor Incidence for Selected Control Animal Route: ORAL

Vehicle: WATER

			Male				Female	
#Oral Cavity (Oral Mucos		/nx, Tooth, Gingiva): Squamous, or Papilloma						
	a, . apoa c	0/50 (0%)				1/50 (2%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
#Oral Mucosa: Squamous Cell Carcino								
		0/50 (0%)	••	25 20 /		0/50 (0%)		05 00/
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenocarcinoma								
						0/49 (0%)		
Overall Incidence					Total	0/49 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenoma								
Overall Incidence					Total	3/49 (6%) 3/49 (6.12%)	Mean 6.12%	SD 0%
'Ovary:	·····							
Granulosa Cell Tumor I	Benign					0/49 (0%)		
Overall Incidence					Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%
Ovary: Granulosa Cell Tumor I	Malignant							
						0/49 (0%)		
Overall Incidence					Total	0/49 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Page: 165

Report Date: 11/01/2019

Route: ORAL Vehicle: WATER

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** *Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS 0/49 (0%)SD 0% **Overall Incidence** Total 0/49 (0%) Mean 0% *Ovary: **Granulosa-Theca Tumor Malignant** 0/49 (0%)**Overall Incidence** Total 0/49 (0%) Mean 0% SD 0% *Ovary: Hemangioma 0/49 (0%)**Overall Incidence** Total 0/49 (0%) Mean 0% SD 0% *Ovary: Hemangiosarcoma 0/49 (0%)**Overall Incidence** SD 0% Total 0/49 (0%) Mean 0% *Ovary: Luteoma

1/49

0/49

0/49 (0%)

1/49 (2.04%)

Total

Total

(2%)

(0%)

Mean 2.04%

Mean 0%

SD 0%

SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Overall Incidence

Overall Incidence

*Ovary: Sarcoma

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Length of Study: CHRONIC

Vehicle: WATER

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			Male			Female			
*Ovary: Thecoma Malignant									
Overall Incidence					Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	
*Ovary: Tubulostromal Adenor	ma								
Overall Incidence					Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%	
*Pancreas: Mast Cell Tumor									
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Parathyroid Gland: Adenoma	•••••								
Overall Incidence	Total	0/44 (0%) 0/44 (0%)	Mean 0%	SD 0%	Total	0/45 (0%) 0/45 (0%)	Mean 0%	SD 0%	
*Pituitary Gland: Pars Di									
Adenoma		0/48 (0%)				2/50 (4%)			
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%	
*Pituitary Gland: Pars Di Carcinoma	stalis or Unspeci	fied Site:							
Overall Incidence	Total	0/48 (0%) 0/48 (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

Toxicology Data Management System

Page: 167

Report Date: 11/01/2019

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Species: MICE Strain: B6C3F1/N

Vehicle: WATER

			Male			Female				
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma										
		0/48 (0%)				2/50 (4%)				
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	2/50 (4%)	Mean 4%	SD 0%		
Pituitary Gland: Pars Interm Adenoma	edia:									
		0/48 (0%)				0/50 (0%)				
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
Pituitary Gland: Pars Interm Carcinoma										
		0/48 (0%)				0/50 (0%)				
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
Pituitary Gland: Pars Interm Carcinoma or Adenoma										
		0/48 (0%)				0/50 (0%)				
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
Pituitary Gland: Pars Interm Schwannoma Malignant										
		0/48 (0%)				0/50 (0%)				
Overall Incidence	Total	0/48 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%		
Prostate: Mast Cell Tumor										
		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 168

			Male				Female			
*Salivary Glands: Adenoma				-						
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Salivary Glands: Carcinoma		0/50 (00/)				0/50 (00/)				
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Salivary Glands: 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%		
*Salivary Glands: 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%		
*Salivary Glands: Mast Cell Tumor		0/50 (00()				0/50 (00/)				
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
*Salivary Glands: Myxosarcoma										
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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

idence for Selected Control Animal Gro

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Report Date: 11/01/2019

Route: ORAL Vehicle: WATER

			Male				Female	
#Seminal Vesicle: Adenoma								
		0/50 (0%)						
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
#Seminal Vesicle: Fibroma		0/50 (0%)						
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
#Skeletal Muscle: Hemangiosarcoma	•••••							
		1/50 (2%)				0/50 (0%)		
Overall Incidence	Total	1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
#Skeletal Muscle: 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%
#Skeletal Muscle: Rhabdomyosarcoma								
		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: Rhabdomyosarcoma or F	Rhabdomyoma							
		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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page**: 170

			Male				Female	
#Skeletal Muscle: Sarcoma		0/50 (00%)				4/50 (00)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%
#Skin: Basal Cell Carcinoma		0/50 (09/)				0/50 (00/)		
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Skin: Basal Cell Carcinoma o	or Basosquamou	s Tumor (malignant or N 0/50 (0%)	os)			0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
	Basal Cell Adeno ioma	oma, Basosquamous Tur	mor (benign, maligna	ant or		0/50 (0%)		
Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence	ioma Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence #Skin: Basal or Sq. Cell Carci	Totalnoma, Carcinoma	0/50 (0%) 0/50 (0%) a, Basosq. Tumor (M or E	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%
Basal Cell Carcinoma, NOS), or Trichoepitheli Overall Incidence Skin: Basal or Sq. Cell Carci Adenoma, Papilloma, S	Totalnoma, Carcinoma	0/50 (0%) 0/50 (0%) a, Basosq. Tumor (M or E	Mean 0%	SD 0%	Total Total	0/50 (0%)	Mean 0% Mean 0%	SD 0% SD 0%
NOS), or Trichoepitheli Overall Incidence #Skin: Basal or Sq. Cell Carci	Total Total noma, Carcinoma	0/50 (0%) 0/50 (0%) a, Basosq. Tumor (M or Eratoacanthoma, Trichoep 0/50 (0%)	Mean 0% 3), Basal Cell Adeno ithelioma	SD 0%		0/50 (0%)		

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER

Length of Study: CHRONIC

Venicie: WATER

Page: 171

		Male				Female						
Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma												
	0/50 (0%)				1/50 (2%)							
Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%					
				•••••								
	0/50 (0%)				1/50 (2%)							
Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%					
	0/50 (00/)											
Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%					
	, or Malignant Fibrous H				1/50 (2%)							
Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%					
	0/50 (0%)				0/50 (0%)							
Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%					
Total	` ,	Mean 0%	SD 0%	Total	` ,	Mean 0%	SD 0%					
	Total Total Total Total Total Total Total	0/50 (0%) Total 0/50 (0%) Sarcoma, Myxoma, Myxosarcoma, or M 0/50 (0%) Total 0/50 (0%)	Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histor	Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or	Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or O/50 (0%) Mean 0% SD 0% Total	Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or	Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or 1/50 (2%) 1/50 (2%) Mean 2%					

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 172

			Male				Female	
#Skin: Keratoacanthoma								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Skin: 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%
#Skin: Liposarcoma		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: Malignant Fibrous Histic		0/50 (0%)						
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
#Skin: Melanoma 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%
#Skin: Neurofibrosarcoma or S		alignant or NOS) 0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date: 11/01/2019

Page: 173

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

n, malignant or NOS)) Mean 0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
Mean 0%) Mean 0%		Total	, ,	Mean 0%	SD 0%
Mean 0%					
Mean 0%			0/50 (00/)		
	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
			0/50 (0%)		
) Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
			0(50 (00))		
) Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
) Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
)	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
) a	Mean 0% amous Tumor (malignan Mean 0%	Mean 0% SD 0% amous Tumor (malignant or NOS), Mean 0% SD 0%	Mean 0% SD 0% Total amous Tumor (malignant or NOS), Mean 0% SD 0% Total	0/50 (0%) Mean 0% SD 0% Total 0/50 (0%) amous Tumor (malignant or NOS), 0/50 (0%) Mean 0% SD 0% Total 0/50 (0%)	0/50 (0%) Mean 0% SD 0% Total 0/50 (0%) Mean 0% amous Tumor (malignant or NOS), 0/50 (0%)

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Strain: B6C3F1/N

Overall Incidence

Overall Incidence

Overall Incidence

Overall Incidence

Overall Incidence

#Spinal Cord:

*Spleen:

......

Schwannoma Malignant

#Skin:

#Skin:

#Skin:

#Skin:

Length of Study: CHRONIC

Squamous Cell Papilloma

Squamous Cell Papilloma or Papilloma

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER

SD 0%

Male **Female** 0/50 (0%)Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 0% 0/50 (0%)Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 0% Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma 0/50 (0%)Mean 0% SD 0% Total 0/50 (0%) Mean 0% SD 0% 0/50 (0%)Mean 0% SD 0% Total Mean 0% SD 0% 0/50 (0%)

0/50

0/50 (0%)

Total

(0%)

Mean 0%

Mean 0%

SD 0%

SD 0%

Page: 174

Report Date: 11/01/2019

Hemangiosarcoma

Total

Total

Total

Total

Total

Squamous Cell Papilloma, Papilloma, or Keratoacanthoma

4/49 (8%)0/50 (0%)**Overall Incidence** Total SD 0% 4/49 (8.16%) Mean 8.16% Total 0/50 (0%)

Mean 2%

0/50

0/50 (0%)

0/50

0/50 (0%)

0/50

0/50 (0%)

0/50

0/50 (0%)

1/50

1/50 (2%)

(0%)

(0%)

(0%)

(2%)

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page:** 175

				Male				Female	
#Stomach, Forestomach: Mast Cell Tumor Malignant		,							
Overall Incidence	Total	1/50 1/50 (2%)	(2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma							0/50 (004)		
Overall Incidence	Total	0/50 0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma c	-	0/50	(0%)		OD 201	-	1/50 (2%)		OD 200
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%
#Stomach, Forestomach: Squamous Cell Papilloma Overall Incidence	Total	0/50 0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%
#Stomach, Glandular: Adenoma		0/50	(00/)				0/50 (00/)		
Overall Incidence	Total	0/50 0/50 (0%)	(0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
#Stomach, Glandular: Carcinoma		0/50	(0%)				0/50 (0%)		
Overall Incidence	Total	0/50 (0%)	(0 /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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page:** 176

			Male				Female	
#Stomach, Glandular: Carcinoma or Adenoma								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%
*Testis: Adenoma								
Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%				
*Testis: Hemangioma		0/50 (0%)						
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%				
*Thymus: Thymoma Benign		0/45 (0%)				0/49 (0%)		
Overall Incidence	Total	0/45 (0%)	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma NOS								
Overall Incidence	Total	0/45 (0%) 0/45 (0%)	Mean 0%	SD 0%	Total	0/49 (0%) 0/49 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma: Benign, Malign	ant, NOS	0/45 (0%)				0/49 (0%)		
Overall Incidence	Total	0/45 (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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER Page: 177

				Male				Female	
*Thyroid Gland: C-Cell: Adenoma									
			(0%)				0/49 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Carcinoma									
			(0%)				0/49 (0%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Carcinoma or Adenoma		0/50	(0%)				0/49 (0%)		
Overall Incidence	Total	0/50 (0%)	,	Mean 0%	SD 0%	Total	0/49 (0%)	Mean 0%	SD 0%
*Thyroid Gland: Follicular Cel Adenoma									
			(0%)				1/49 (2%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	1/49 (2.04%)	Mean 2.04%	SD 0%
*Thyroid Gland: Follicular Cel Carcinoma or Adenoma	l:								
		0/50	(0%)				1/49 (2%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	1/49 (2.04%)	Mean 2.04%	SD 0%
#Tongue: Squamous Cell Carcinoma		a Squamous							
			(0%)				1/50 (2%)		
Overall Incidence	Total	0/50 (0%)		Mean 0%	SD 0%	Total	1/50 (2%)	Mean 2%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 178
Report Date: 11/01/2019

Species: MICE Strain: B6C3F1/N Route: ORAL Vehicle: WATER

			Male			Female			
#Tongue: Squamous Cell Papilloma Overall Incidence	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	
#Tooth: Odontoma		4/50 (20()				0/50 (00/)			
Overall Incidence	Total	1/50 (2%) 1/50 (2%)	Mean 2%	SD 0%	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%	
*Urinary Bladder: 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%	
*Urinary Bladder: Mast Cell Tumor		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: Adenoma						0/50 (0%)			
Overall Incidence					Total	0/50 (0%)	Mean 0%	SD 0%	
#Uterus: Fibroma						(004)			
Overall Incidence					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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE
Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER **Page:** 179

Male		Female				
		0/50 (00/)				
	Total	0/50 (0%)	Mean 0%	SD 0%		
		0/50 (00/)				
	Total	0/50 (0%)	Mean 0%	SD 0%		
		1/50 /20/\				
	Total	1/50 (2%)	Mean 2%	SD 0%		
	Total	0/50 (0%)	Mean 0%	SD 0%		
	Total	0/50 (0%) 0/50 (0%)	Mean 0%	SD 0%		
		0/50 (00/)				
	Total	0/50 (0%)	Mean 0%	SD 0%		
		Total Total Total Total	0/50 (0%) Total 0/50 (0%) 0/50 (0%) Total 0/50 (0%) 1/50 (2%) Total 1/50 (2%) Total 0/50 (0%) 0/50 (0%) Total 0/50 (0%) Total 0/50 (0%)	Total 0/50 (0%) Total 0/50 (0%) Mean 0% 0/50 (0%) Total 0/50 (0%) Mean 0% 1/50 (2%) Total 1/50 (2%) Mean 2% 0/50 (0%) Total 0/50 (0%) Mean 0% 0/50 (0%) Mean 0% 0/50 (0%) Mean 0%		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N Length of Study: CHRONIC

Toxicology Data Management System

Page: 180

Report Date: 11/01/2019

Tumor Incidence for Selected Control Animal Groups

Route: ORAL Vehicle: WATER

Male **Female #Uterus:** Sarcoma Stromal or Polyp Stromal 0/50 (0%)0/50 (0%) SD 0% **Overall Incidence** Total Mean 0% #Vagina: Hemangioma 0/50 (0%)**Overall Incidence** Total 0/50 (0%) Mean 0% SD 0% #Zymbal's Gland: Carcinoma 0/50 (0%)0/50 (0%)SD 0% **Overall Incidence** Total 0/50 (0%) Mean 0% Total 0/50 (0%) Mean 0% SD 0% #Zymbal's Gland: Carcinoma or Adenoma 0/50 (0%)0/50 (0%)**Overall Incidence** SD 0% Total 0/50 (0%) Mean 0% SD 0% Total 0/50 (0%) Mean 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 181

Report Date: 11/01/2019

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	052010578	06/18/12	729	90(1)	66(687)	51.5	Radiofrequency Radiation
					Female		
I. I. T. Research Institute	052010578	06/18/12	739	90(1)	67(704)	62.6	Radiofrequency Radiation

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 182

			Male				Female	
#All Organs: Benign Tumors		0.100 (0.50)						
	+	61/90 (68%)	M 07.700/	OD 00/	-	36/90 (40%)	100/	00.00/
Overall Incidence	Total	61/90 (67.78%)	Mean 67.78%	SD 0%	Total	36/90 (40%)	Mean 40%	SD 0%
#All Organs: Malignant Tumors		40/00 (540/)				00/00 (070)		
O	Tatal	49/90 (54%)	M 54 440/	OD 00/	T-1-1	33/90 (37%)	M 00 070/	OD 00/
Overall Incidence	Total	49/90 (54.44%)	Mean 54.44%	SD 0%	Total	33/90 (36.67%)	Mean 36.67%	SD 0%
#All Organs: Malignant and Benign T	umors							
		79/90 (88%)				59/90 (66%)		
Overall Incidence	Total	79/90 (87.78%)	Mean 87.78%	SD 0%	Total	59/90 (65.56%)	Mean 65.56%	SD 0%
#All Organs: Hemangioma		1/90 (1%)				4/90 (4%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	4/90 (4.44%)	Mean 4.44%	SD 0%
#All Organs: Hemangiosarcoma		0/00 (00/)				0/00 (00/)		
	.	2/90 (2%)		OD 00/	-	2/90 (2%)		OD 00/
Overall Incidence	Total	2/90 (2.22%)	Mean 2.22%	SD 0%	Total	2/90 (2.22%)	Mean 2.22%	SD 0%
#All Organs: Hemangiosarcoma or He	emangioma							
		3/90 (3%)				6/90 (7%)		
Overall Incidence	Total	3/90 (3.33%)	Mean 3.33%	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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 183

			Male				Female	
#All Organs: Histiocytic Sarcoma								
Overell Incidence	Total	0/90 (0%)	Maan 00/	CD 00/	Total	8/90 (9%)	Maan 9 900/	CD 00/
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	8/90 (8.89%)	Mean 8.89%	SD 0%
#All Organs: Malignant Lymphoma: Histi	ocytic, Lym		or Undifferentiated Ce	II Type		0(00 (00))		
O	T-1-1	6/90 (7%)	M 0.070/	OD 00/	T-1-1	2/90 (2%)	Maran 0.000/	OD 00/
Overall Incidence	Total	6/90 (6.67%)	Mean 6.67%	SD 0%	Total	2/90 (2.22%)	Mean 2.22%	SD 0%
#All Organs: Malignant Schwannoma		0/00 (00/)				0/00 (00/)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
		` '				, ,		
#All Organs: Osteosarcoma		0/90 (0%)				3/90 (3%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	3/90 (3.33%)	Mean 3.33%	SD 0%
#All Organs: Osteosarcoma or Osteoma								
		0/90 (0%)				3/90 (3%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	3/90 (3.33%)	Mean 3.33%	SD 0%
*Adrenal Cortex: Adenoma		0/00 /09/				4/04 /40/		
Overell Incidence	Total	0/90 (0%)	Maan 00/	CD 00/	Total	1/84 (1%)	Maan 1 100/	CD 00/
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/84 (1.19%)	Mean 1.19%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 184

			1	Male			Female		
*Adrenal Medulla: Pheochromocytoma Ber	nign								
Overall Incidence	Total	0/90 (0 0/90 (0%)	0%) Mean 0	% SD 0%	Total	0/83 (0%) 0/83 (0%)	Mean 0%	SD 0%	
*Adrenal Medulla: Pheochromocytoma Mal	lignant								
i noooni omooy toma ma	g.i.a.i.t	0/90 (0	0%)			2/83 (2%)			
Overall Incidence	Total	0/90 (0%)	Mean (9% SD 0%	Total	2/83 (2.41%)	Mean 2.41%	SD 0%	
*Adrenal Medulla: Pheochromocytoma: Be Overall Incidence	e nign, Complex, Total)%) Mean (% SD 0%	Total	2/83 (2%) 2/83 (2.41%)	Mean 2.41%	SD 0%	
#Blood Vessel: Hemangioma Overall Incidence	Total)%) Mean (0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	
#Blood Vessel: Hemangiosarcoma						0/00 (00()			
Overall Incidence	Total	0/90 (0 0/90 (0%))%) Mean (9% SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	
*Bone Marrow: Hemangiosarcoma		0/90 (0)%)			0/90 (0%)			
	Total	0/90 (0%)	Mean ()% SD 0%	Total	0/90 (0%)			

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 185

			Male				Female	
*Bone Marrow: Mast 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%
*Bone Marrow: 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%
#Bone: 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%
#Bone: Hemangioma		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%
#Bone: Hemangiosarcoma		0/00 (00/)				0/00 (00/)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Bone: Osteosarcoma		0/90 (0%)				1/90 (1%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 186

		Male				Female			
ı									
	0/90 (0%)				1/90 (1%)				
Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11%	SD 0%		
	0/90 (0%)				0/90 (0%)				
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%		
	4/00 (40()				0/00 (00/)				
Total	` '	Moon 1 120/	CD 00/	Total	` '	Moon 09/	SD 0%		
	, ,	IVIEAN 1.12%		10tai	0/62 (0%)	iviean 0%	3D 0%		
	0/90 (0%)				0/90 (0%)				
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%		
		•••••			•••••				
	0/90 (0%)				0/90 (0%)				
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%		
	1/00 /49/								
Total	` ,	Mean 1 110/	SD 0%						
	Total Total	0/90 (0%) Total 0/90 (0%) 0/90 (0%) Total 0/90 (0%) 1/89 (1%) Total 1/89 (1.12%) 0/90 (0%) Total 0/90 (0%) Total 0/90 (0%) Total 0/90 (0%) 1/90 (1%)	O/90 (0%) Total O/90 (0%) Mean 0% O/90 (0%) Total O/90 (0%) Mean 0% 1/89 (1%) Total 1/89 (1.12%) Mean 1.12% O/90 (0%) Total O/90 (0%) Mean 0% Total O/90 (0%) Mean 0% Total O/90 (0%) Mean 0%	Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% 1/89 (1%) Total 1/89 (1.12%) Mean 1.12% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0%	Total 0/90 (0%) Mean 0% SD 0% Total Total 0/90 (0%) Mean 0% SD 0% Total Total 0/90 (0%) Mean 0% SD 0% Total Total 1/89 (1%)	Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1.11%) 1/80 (1%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 1/89 (1%) Mean 1.12% SD 0% Total 0/82 (0%) Total 0/90 (0%) Mean 1.12% SD 0% Total 0/82 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%)	Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Mean 1.11% 0/90 (0%)		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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: Adenoma								
		6/90 (7%)				4/90 (4%)		
Overall Incidence	Total	6/90 (6.67%)	Mean 6.67%	SD 0%	Total	4/90 (4.44%)	Mean 4.44%	SD 0%
#Harderian Gland: Carcinoma								
		3/90 (3%)				0/90 (0%)		
Overall Incidence	Total	3/90 (3.33%)	Mean 3.33%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Harderian Gland: Carcinoma or Adenoma								
		9/90 (10%)				4/90 (4%)		
Overall Incidence	Total	9/90 (10%)	Mean 10%	SD 0%	Total	4/90 (4.44%)	Mean 4.44%	SD 0%
#Harderian Gland: Mast Cell Tumor		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%
*Heart: 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%
#Intestine Large: Cecum: Leiomyosarcoma		0/00 (00/)				0/00 /00/		
O	T-1-1	0/90 (0%)	Maran 00/	00.00/	T-1-1	0/90 (0%)	M 00/	OD 00/
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

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 188 Report Date: 11/01/2019

			Male				Female	
#Intestine Small: Duodenum: Adenoma								
		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 Small: Duodenum: Carcinoma								
		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%
#Intestine Small: Duodenum: Polyp Adenomatous		0/00 (00/)				0/00 (00/)		
Overall Incidence	T-4-1	0/90 (0%)	Mana 00/	CD 00/	Tatal	0/90 (0%)	Mann 00/	SD 0%
Overall incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Intestine Small: Ileum: Adenoma		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 Small: Jejunum: Adenoma								
		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 Small: Jejunum: Carcinoma		0/00 (00/)				0 (00 (00))		
Overell Insidence	Tatal	2/90 (2%)	Mana 0 000/	CD 00/	Tatal	0/90 (0%)	Mann 00/	CD 00/
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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 189

			Male				Female	
#Intestine Small: Jejunum 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 Small: Jejunum Mast Cell Tumor	:							
Overall Incidence	Total	1/90 (1%) 1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Adenoma								
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma								
Overall Incidence	Total	3/90 (3%) 3/90 (3.33%)	Mean 3.33%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Carcinoma or Adenoma	pecified:							
Overall Incidence	Total	3/90 (3%) 3/90 (3.33%)	Mean 3.33%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Uns Leiomyosarcoma	pecified:							
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** #Intestine Small: Site Unspecified: **Mast Cell Tumor** 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% #Intestine Small: Site Unspecified: **Polyp Adenomatous** 0/90 (0%)0/90 (0%)**Overall Incidence** Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% *Islets, Pancreatic: 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% *Islets, Pancreatic: Carcinoma 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% *Islets, Pancreatic: Carcinoma or Adenoma 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% *Kidney: Renal Tubule: Adenoma 0/90 (0%)2/89 (2%)Mean 0%

SD 0%

2/89 (2.25%)

Total

Mean 2.25%

SD 0%

Total

0/90 (0%)

Overall Incidence

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 191

			Male				Female	
*Kidney: Renal Tubule: Carcinoma								
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%) 0/89 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Carcinoma or Adenoma		0/90 (0%)				2/89 (2%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	2/89 (2.25%)	Mean 2.25%	SD 0%
*Kidney: Renal Tubule: Hemangiosarcoma		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Mast Cell Tumor		1/90 (1%)				0/89 (0%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Renal Mesenchymal Tumor								
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	1/89 (1%) 1/89 (1.12%)	Mean 1.12%	SD 0%
*Liver: Cholangiocarcinoma		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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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				Female			
	0/90 (0%)				0/89 (0%)		
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
	1/90 (1%)				0/89 (0%)		
Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
	-()						
T-1-1	` '	Mara 0.070/	OD 00/	T-1-1	` '	M 4 400/	OD 00/
	` '				` '		SD 0%
	52/00 (599/)				10/90 (21%)		
Total	52/90 (57.78%)	Mean 57.78%	SD 0%	Total	19/89 (21.35%)	Mean 21.35%	SD 0%
	` '				` '		
ıotal	28/90 (31.11%)	Mean 31.11%	SD 0%	Total	8/89 (8.99%)	Mean 8.99%	SD 0%
lepatobla					0/00 (400/)		
Total		Moon 25 569/	SD 00/	Total	, ,	Moon 10 110/	SD 0%
· T·	Fotal Fotal Fotal Fotal	Total 0/90 (0%) 1/90 (1%) Total 1/90 (1.11%) 6/90 (7%) Total 6/90 (6.67%) 52/90 (58%) Total 52/90 (57.78%) 28/90 (31%) Total 28/90 (31.11%) Iepatoblastoma 32/90 (36%) Total 32/90 (35.56%)	Total 0/90 (0%) Mean 0% 1/90 (1%) Total 1/90 (1.11%) Mean 1.11% 6/90 (7%) Total 6/90 (6.67%) Mean 6.67% 52/90 (58%) Total 52/90 (57.78%) Mean 57.78% 28/90 (31%) Total 28/90 (31.11%) Mean 31.11% Ilepatoblastoma 32/90 (36%) Total 32/90 (35.56%) Mean 35.56%	Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Mean 1.11% SD 0% Total 6/90 (7%) Mean 6.67% SD 0% Total 52/90 (58%) SD 0% Total 52/90 (57.78%) Mean 57.78% SD 0% Total 28/90 (31%) Mean 31.11% SD 0% Total 28/90 (31.11%) Mean 31.11% SD 0% Total 32/90 (36%) Total 32/90 (35.56%) Mean 35.56% SD 0%	Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Total 1/90 (1.11%) Mean 1.11% SD 0% Total 6/90 (7%) Total 6/90 (6.67%) Mean 6.67% SD 0% Total 52/90 (58%) Total 52/90 (57.78%) Mean 57.78% SD 0% Total 28/90 (31%) Total 28/90 (31.11%) Mean 31.11% SD 0% Total Repatoblastoma 32/90 (36%) Total 32/90 (35.56%) Mean 35.56% SD 0% Total	Total 0/90 (0%) Mean 0% SD 0% Total 0/89 (0%) Total 1/90 (1%)	Total 0/90 (0%) Mean 0% SD 0% Total 0/89 (0%) Mean 0% 1/90 (1%) Mean 1.11% SD 0% Total 0/89 (0%) Mean 0% 6/90 (7%) Mean 6.67% SD 0% Total 1/89 (1%) Fotal 6/90 (6.67%) Mean 6.67% SD 0% Total 1/89 (1.12%) Mean 1.12% 52/90 (58%) Fotal 52/90 (57.78%) Mean 57.78% SD 0% Total 19/89 (21%) Fotal 28/90 (31%) Mean 31.11% SD 0% Total 19/89 (8.99%) Mean 8.99% 1epatoblastoma 32/90 (36%) 9/89 (10%)

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 193

			Male				Female	
*Liver: Hepatocellular Carcinor	na or Hepatoce							
	-	67/90 (74%)	74 4407	OD 00/	-	25/89 (28%)		OD 00/
Overall Incidence	Total	67/90 (74.44%)	Mean 74.44%	SD 0%	Total	25/89 (28.09%)	Mean 28.09%	SD 0%
*Liver: Hepatocellular Carcinor	na, Hepatocell	ular Adenoma, or Hepato	blastoma					
		68/90 (76%)				25/89 (28%)		00.00/
Overall Incidence	Total	68/90 (75.56%)	Mean 75.56%	SD 0%	Total	25/89 (28.09%)	Mean 28.09%	SD 0%
*Liver: Hepatocholangiocarcine								
		1/90 (1%)				0/89 (0%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Liver: Mast Cell Tumor								
	.	1/90 (1%)		00.00/	-	0/89 (0%)	14 00/	00.00/
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Lung: Alveolar/Bronchiolar Ac	denoma	13/90 (14%)				3/90 (3%)		
Overall Incidence	Total	13/90 (14.44%)	Mean 14.44%	SD 0%	Total	3/90 (3.33%)	Mean 3.33%	SD 0%
*Lung: Alveolar/Bronchiolar Ca	arcinoma	13/90 (14%)				3/90 (3%)		
Overall Incidence	Total	` '	Mean 14.44%	SD 0%	Total	` '	Mean 3.33%	SD 0%
	Total	13/90 (14.44%)				3/90 (3.33%)		

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 194

			Male				Female	
*Lung: Alveolar/Bronchiolar Card	inoma or Alv		oma					
		23/90 (26%)				6/90 (7%)		
Overall Incidence	Total	23/90 (25.56%)	Mean 25.56%	SD 0%	Total	6/90 (6.67%)	Mean 6.67%	SD 0%
*Lung: 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%
*Lung: Mast Cell Tumor								
		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%
#Lymph Node: Hemangiosarcoma		0/00 (00/)				0/00 (00/)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Lymph Node: Mast Cell Tumor								
		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%
#Lymph Node, Mandibular: Mast Cell Tumor								
		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 195

			Male				Female	
#Lymph Node, Mandibular: Mast 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%
#Lymph Node, Mesenteric: Hemangioma								
		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%
#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%
#Lymph Node, Mesenteric: Mast Cell Tumor		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%
#Lymph Node, Mesenteric: Mast 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%
#Mammary Gland: Adenoma								
		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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 196

		Male				Female	
Tatal	0/90 (0%)	Maan 00/	CD 00/	Tatal	0/90 (0%)	Mana 00/	CD 00/
ı otal	0/90 (0%)	wiean 0%	SD 0%	ı otaı	0/90 (0%)	Wean 0%	SD 0%
	, ,				` '		
	, ,	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
or Adenoma	0/90 (0%)				0/90 (0%)		
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
	r Adenoma						
Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
	0/90 (0%)				1/90 (1%)		
Total	0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11%	SD 0%
	1/00 /19/\				0/00 (0%)		
Total	, ,	Mean 1 11%	SD 0%	Total	` '	Mean 0%	SD 0%
	Total Carcinoma, or	Total 0/90 (0%) O/90 (0%) Total 0/90 (0%) Or Adenoma O/90 (0%) Total 0/90 (0%) Carcinoma, or Adenoma O/90 (0%) Total 0/90 (0%) Total 0/90 (0%) Total 0/90 (0%) Total 0/90 (0%)	Total 0/90 (0%) Mean 0% 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% or Adenoma 0/90 (0%) Mean 0% Carcinoma, or Adenoma 0/90 (0%) Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0%	Total 0/90 (0%) Mean 0% SD 0% O/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Carcinoma, or Adenoma 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0%	Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% Total Total 0/90 (0%) Mean 0% SD 0% Total or Adenoma 0/90 (0%) Mean 0% SD 0% Total Carcinoma, or Adenoma 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%)	Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) O/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) O/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Carcinoma, or Adenoma O/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1.11%)	Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% or Adenoma 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% Carcinoma, or Adenoma 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1%) Mean 0% Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1.11%) Mean 1.11%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

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			Male				Female	
#Mesentery: Lipoma								
		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%
#Mesentery: 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%
*Nose: Adenoma								
		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Nose: Polyp								
		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
#Oral Cavity (Oral Mucos	sa, Tongue, Phar							
	•	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 Cavity (Oral Mucos Squamous Cell Carcin	sa, Tongue, Phar	ynx, Tooth, Gingiva):						
		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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Control Animal Groups

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Report Date: 11/01/2019

Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Oral Cavity (Oral Mucos Squamous Cell Carcin		ynx, Tooth, Gingiva): Squamous, or 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%
#Oral Mucosa: Squamous Cell Carcin	oma							
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenocarcinoma						0/75 (00)		
Overall Incidence					Total	0/75 (0%) 0/75 (0%)	Mean 0%	SD 0%
*Ovary: Cystadenoma								
Overall Incidence					Total	2/75 (3%) 2/75 (2.67%)	Mean 2.67%	SD 0%
*Ovary: Granulosa Cell Tumor	Benign							
Overall Incidence					Total	1/75 (1%) 1/75 (1.33%)	Mean 1.33%	SD 0%
*Ovary: Granulosa Cell Tumor								
Overall Incidence					Total	0/75 (0%) 0/75 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date: 11/01/2019

Route: Whole Body Exposure

Vehicle: AIR

Length of Study: CHRONIC

	Male			Female	
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS					
			1/75 (1%)		
Overall Incidence		Total	1/75 (1.33%)	Mean 1.33%	SD 0%
Ovary: Granulosa-Theca Tumor Malignant					
			0/75 (0%)		
Overall Incidence		Total	0/75 (0%)	Mean 0%	SD 0%
*Ovary: Hemangioma			2/ (00)		
Overall Incidence		Total	2/75 (3%) 2/75 (2.67%)	Mean 2.67%	SD 0%
Ovary: Hemangiosarcoma					
nemangiosa coma			0/75 (0%)		
Overall Incidence		Total	0/75 (0%)	Mean 0%	SD 0%
Ovary: Luteoma					
			0/75 (0%)		
Overall Incidence		Total	0/75 (0%)	Mean 0%	SD 0%
*Ovary: Sarcoma				•••••	
			0/75 (0%)		
Overall Incidence		Total	0/75 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Page: 200 Report Date: 11/01/2019

			Male				Female	
*Ovary: Thecoma Malignant								
Overall Incidence					Total	1/75 (1%) 1/75 (1.33%)	Mean 1.33%	SD 0%
*Ovary: Tubulostromal Adenoma	a							
Overall Incidence					Total	0/75 (0%) 0/75 (0%)	Mean 0%	SD 0%
*Pancreas: Mast Cell Tumor								
Overall Incidence	Total	1/87 (1%) 1/87 (1.15%)	Mean 1.15%	SD 0%	Total	0/87 (0%) 0/87 (0%)	Mean 0%	SD 0%
*Parathyroid Gland: Adenoma								
Overall Incidence	Total	0/68 (0%) 0/68 (0%)	Mean 0%	SD 0%	Total	0/60 (0%) 0/60 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Dist								
Overall Incidence	Total	0/86 (0%) 0/86 (0%)	Mean 0%	SD 0%	Total	6/80 (8%) 6/80 (7.5%)	Mean 7.5%	SD 0%
*Pituitary Gland: Pars Dist Carcinoma								
Overall Incidence	Total	0/86 (0%) 0/86 (0%)	Mean 0%	SD 0%	Total	0/80 (0%) 0/80 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

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			Male				Female	
*Pituitary Gland: Pars Distali Carcinoma or Adenoma	s or Unspeci	fied Site:						
		0/86 (0%)				6/80 (8%)		
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	6/80 (7.5%)	Mean 7.5%	SD 0%
*Pituitary Gland: Pars Interm Adenoma	edia:							
		0/86 (0%)				0/80 (0%)		
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/80 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Interm Carcinoma	edia:							
Occupation of James	T-1-1	0/86 (0%)	Maran 00/	OD 00/	T-1-1	0/80 (0%)	Maran 00/	00 00/
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/80 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Interm Carcinoma or Adenoma	edia:							
		0/86 (0%)				0/80 (0%)		
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/80 (0%)	Mean 0%	SD 0%
*Pituitary Gland: Pars Interm Schwannoma Malignant								
_		0/86 (0%)				0/80 (0%)		
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/80 (0%)	Mean 0%	SD 0%
*Prostate: Mast Cell Tumor								
Occupation of James	T-1-1	1/90 (1%)	Mars 4 4407	OD 00/				
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%				

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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	
*Salivary Glands: Adenoma								
		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Salivary Glands: Carcinoma								
		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Salivary Glands: Carcinoma or Adenoma		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Salivary Glands:		, ,						
Hemangiosarcoma		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Salivary Glands: Mast Cell Tumor								
		1/90 (1%)				0/89 (0%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%
*Salivary Glands: Myxosarcoma								
		0/90 (0%)				0/89 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/89 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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	
#Seminal Vesicle: Adenoma		0/90 (0%)						
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%				
#Seminal Vesicle: Fibroma		1/90 (1%)						
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%				
#Skeletal Muscle: Hemangiosarcoma								
		0/90 (0%)		05.00		0/90 (0%)		05 00/
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skeletal Muscle: Osteosarcoma		0/00 (0%)				4/00 /40/)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1%) 1/90 (1.11%)	Mean 1.11%	SD 0%
#Skeletal Muscle: Rhabdomyosarcoma								
Overall Incidence	Tatal	0/90 (0%)	Mean 0%	CD 00/	Tatal	0/90 (0%)	Mana 00/	SD 0%
Overall incidence	Total	0/90 (0%)		SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skeletal Muscle: Rhabdomyosarcoma or F	Rhabdomyoma							
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Maan 00/	SD 0%	Total	0/90 (0%)	Mean 0%	CD 00/
Overall incidence	Total	0/90 (0%)	Mean 0%	3D 0%	Total	0/90 (0%)	iviean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

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Report Date: 11/01/2019

Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Skeletal Muscle: Sarcoma								
		1/90 (1%)				0/90 (0%)		
Overall Incidence	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Basal Cell Carcinoma								
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Basal Cell Carcinoma (or Basosquamoı	us Tumor (malignant or N	NOS)			0(00 (00))		
		0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Basal Cell Carcinoma, NOS), or Trichoepithel		oma, Basosquamous Tu	mor (benign, maligna	nt or		0/00 (00/)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Skin: Basal or Sq. Cell Carci Adenoma, Papilloma, \$	inoma, Carcinom Sq Papilloma, Ke	a, Basosq. Tumor (M or eratoacanthoma, Trichoe 0/90 (0%)	B), Basal Cell Adenor pithelioma	na,		0/90 (0%)		
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Fibroma						1/00 /19/		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	1/90 (1%) 1/90 (1.11%)	Mean 1.11%	SD 0%
		(1/0/1 //19/.1		C11 (10).				

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

^{#:} Denominator is number of animals necropsied

#Skin:

#Skin:

#Skin:

#Skin:

#Skin:

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Hemangiopericytoma

Overall Incidence

Overall Incidence

Fibrosarcoma

Overall Incidence

Overall Incidence

Hemangioma

Overall Incidence

Overall Incidence

Hemangiosarcoma

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

SD 0%

SD 0%

Male **Female** Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or 6/90 SD 0% Total 6/90 (6.67%) Mean 6.67% SD 0% Mean 1.11% Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma 6/90 (7%)Mean 1.11% SD 0% Total 6/90 (6.67%) Mean 6.67% SD 0% 3/90 (3%)Mean 0% SD 0% Total 3/90 (3.33%) Mean 3.33% SD 0% Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma 5/90 (6%)Mean 1.11% SD 0% Total 5/90 (5.56%) Mean 5.56% SD 0%

0/90

2/90

2/90 (2.22%)

0/90 (0%)

Total

Total

(0%)

(2%)

Mean 0%

Mean 2.22%

SD 0%

SD 0%

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Total

Total

Total

Total

Total

Total

1/90

1/90 (1.11%)

1/90

1/90 (1.11%)

0/90

0/90 (0%)

1/90

1/90 (1.11%)

0/90

0/90 (0%)

1/90 (1.11%)

(1%)

(1%)

(0%)

(1%)

(0%)

(1%)

.....

Mean 0%

Mean 1.11%

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female** #Skin: Keratoacanthoma 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: Lipoma 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% #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% #Skin: **Malignant Fibrous Histiocytoma** 1/90 (1%) 0/90 (0%)**Overall Incidence** Total 1/90 (1.11%) Mean 1.11% SD 0% Total Mean 0% SD 0% 0/90 (0%)

Melanoma Benign **Overall Incidence**

Overall Incidence

0/90 (0%)

0/90 (0%) Mean 0%

SD 0% Total

0/90 (0%)0/90 (0%)

Mean 0%

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SD 0%

#Skin:

#Skin:

Neurofibrosarcoma or Schwannoma (malignant or NOS)

Total

Total

0/90 (0%)

0/90 (0%)

Mean 0%

SD 0%

Total

0/90 (0%)0/90 (0%)

Mean 0%

SD 0%

*: Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Overall Incidence

Osteosarcoma

Overall Incidence

Pilomatrixoma

Overall Incidence

Overall Incidence

#Skin:

#Skin:

#Skin:

#Skin: Sarcoma

#Skin:

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Male **Female** Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS) 0/90 (0%)0/90 (0%)Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0% 0/90 (0%)1/90 (1%)Total 0/90 (0%) Mean 0% SD 0% Total 1/90 (1.11%) Mean 1.11% SD 0% 1/90 (1%)0/90 (0%)Total 1/90 (1.11%) Mean 1.11% SD 0% Total 0/90 (0%) Mean 0% SD 0% 0/90 (0%)2/90 (2%)Total 0/90 (0%) Mean 0% SD 0% Total 2/90 (2.22%) Mean 2.22% SD 0% Schwannoma Malignant 0/90 (0%)0/90 (0%)Total 0/90 (0%) Mean 0% SD 0% Total 0/90 (0%) Mean 0% SD 0%

Overall Incidence

Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS),

or Carcinoma

0/90 (0%)0/90 (0%)

0/90 (0%) Mean 0% **Overall Incidence** Total Mean 0% SD 0% Total 0/90 (0%) SD 0%

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

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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 Papillor	na	0/90 (0%)				0/90 (0%)		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Squamous Cell Papillor	ma or Papilloma					•••••		
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%
#Skin: Squamous Cell Papillor	na, Papilloma, So	quamous Cell Carcinom 0/90 (0%)	a or Keratoacanthor	na		0/90 (0%)		
		` ,						
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%
#Skin: Squamous Cell Papillor	ma, Papilloma, oı	0/90 (0%) r Keratoacanthoma 0/90 (0%)				0/90 (0%)		
#Skin:		0/90 (0%)		SD 0% SD 0%	Total Total		Mean 0% Mean 0%	SD 0% SD 0%
#Skin: Squamous Cell Papillor	na, Papilloma, oi Total	0/90 (0%) r Keratoacanthoma 0/90 (0%) 0/90 (0%)				0/90 (0%) 0/90 (0%)		
#Skin: Squamous Cell Papillor Overall Incidence #Spinal Cord:	na, Papilloma, oi Total	0/90 (0%) r Keratoacanthoma 0/90 (0%)				0/90 (0%)		
#Skin: Squamous Cell Papillor Overall Incidence #Spinal Cord: Schwannoma Malignan	ma, Papilloma, oi Total	0/90 (0%) r Keratoacanthoma 0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%

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

^{#:} Denominator is number of animals necropsied

Strain: B6C3F1/N

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

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				Male			Female			
#Stomach, Forestomach: Mast 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%	
#Stomach, Forestomach: Squamous Cell Carcinoma										
		0/90	(0%)				0/90 (0%)			
Overall Incidence	Total	0/90 (0%)		Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
#Stomach, Forestomach: Squamous Cell Carcinoma o	•	0/90	(0%)				1/90 (1%)		22.00	
Overall Incidence	Total	0/90 (0%)		Mean 0%	SD 0%	Total	1/90 (1.11%)	Mean 1.11%	SD 0%	
#Stomach, Forestomach: Squamous Cell Papilloma		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, Glandular: Adenoma										
		0/90	(0%)				0/90 (0%)			
Overall Incidence	Total	0/90 (0%)		Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
#Stomach, Glandular: Carcinoma		0/05	(00()				0/00 /00/			
Overall Incidence	Total	0/90	(0%)	Maan 00/	CD 00/	Total	0/90 (0%)	Maan Oll	CD 00/	
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

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

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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#Stomach, Glandular: Carcinoma or Adenoma			Male			Female			
		0/90 (0%)				0/00 (00/)			
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	
*Testis: Adenoma		0/00 /00/							
Overall Incidence	Total	2/90 (2%) 2/90 (2.22%)	Mean 2.22%	SD 0%					
*Testis: Hemangioma		0/90 (0%)							
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%					
*Thymus: Thymoma Benign		0/75 (0%)				0/85 (0%)			
Overall Incidence	Total	0/75 (0%)	Mean 0%	SD 0%	Total	0/85 (0%)	Mean 0%	SD 0%	
*Thymus: Thymoma NOS									
Overall Incidence	Total	0/75 (0%) 0/75 (0%)	Mean 0%	SD 0%	Total	0/85 (0%) 0/85 (0%)	Mean 0%	SD 0%	
*Thymus: Thymoma: Benign, Maligi	nant, NOS	0/75 (001)				0/05 /00/			
Overall Incidence	Total	0/75 (0%) 0/75 (0%)	Mean 0%	SD 0%	Total	0/85 (0%) 0/85 (0%)	Mean 0%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

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Report Date: 11/01/2019

Contract/Lab: All Laboratories Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Length of Study: CHRONIC

			Male			Female			
*Thyroid Gland: C-Cell: Adenoma		0/00 (00/)				0/00 (00/)			
Overall Incidence	Total	0/89 (0%) 0/89 (0%)	Mean 0%	SD 0%	Total	0/86 (0%) 0/86 (0%)	Mean 0%	SD 0%	
*Thyroid Gland: C-Cell: Carcinoma		0/89 (0%)				1/86 (1%)			
Overall Incidence	Total	0/89 (0%)	Mean 0%	SD 0%	Total	1/86 (1.16%)	Mean 1.16%	SD 0%	
*Thyroid Gland: C-Cell: Carcinoma or Adenoma									
Overall Incidence	Total	0/89 (0%) 0/89 (0%)	Mean 0%	SD 0%	Total	1/86 (1%) 1/86 (1.16%)	Mean 1.16%	SD 0%	
*Thyroid Gland: Follicular Cell Adenoma						0/86 (0%)			
Overall Incidence	Total	0/89 (0%)	Mean 0%	SD 0%	Total	0/86 (0%)	Mean 0%	SD 0%	
*Thyroid Gland: Follicular Cell Carcinoma or Adenoma			•••••	•••••					
Overall Incidence	Total	0/89 (0%) 0/89 (0%)	Mean 0%	SD 0%	Total	0/86 (0%) 0/86 (0%)	Mean 0%	SD 0%	
#Tongue: Squamous Cell Carcinoma o						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

Species: MICE

Strain: B6C3F1/N

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

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			Male			Female			
#Tongue: Squamous Cell Papilloma	a								
		0/90 (0%)				0/90 (0%)			
Overall Incidence	Total	0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%)	Mean 0%	SD 0%	
#Tooth: Odontoma									
Overall Incidence	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	
*Urinary Bladder: Hemangiosarcoma		0/87 (0%)				0/86 (0%)			
Overall Incidence	Total	0/87 (0%)	Mean 0%	SD 0%	Total	0/86 (0%)	Mean 0%	SD 0%	
*Urinary Bladder: Mast Cell Tumor		1/87 (1%)				0/86 (0%)			
Overall Incidence	Total	1/87 (1.15%)	Mean 1.15%	SD 0%	Total	0/86 (0%)	Mean 0%	SD 0%	
#Uterus: Adenoma									
Overall Incidence					Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%	
#Uterus: Fibroma									
Overall Incidence					Total	1/90 (1%) 1/90 (1.11%)	Mean 1.11%	SD 0%	

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

^{#:} Denominator is number of animals necropsied

Species: MICE

Toxicology Data Management System

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Report Date: 11/01/2019

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

Strain: B6C3F1/N Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male **Female #Uterus: Granular Cell Tumor Benign** 0/90 (0%)SD 0% **Overall Incidence** Total 0/90 (0%) Mean 0% #Uterus: Hemangioma 0/90 (0%)**Overall Incidence** Total 0/90 (0%) Mean 0% SD 0% #Uterus: Hemangiosarcoma 0/90 (0%)**Overall Incidence** Total 0/90 (0%) Mean 0% SD 0% #Uterus: Leiomyoma 1/90 (1%) SD 0% **Overall Incidence** Total 1/90 (1.11%) Mean 1.11% #Uterus: **Polyp Stromal** 0/90 (0%)SD 0% **Overall Incidence** Total 0/90 (0%) Mean 0% #Uterus: Sarcoma Stromal 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

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: MICE Strain: B6C3F1/N

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: Whole Body Exposure

Vehicle: AIR

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			Male				Female			
#Uterus: Sarcoma Stromal or Pol	lyp Stromal									
Overall Incidence					Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 0%		
#Vagina: Hemangioma										
Overall Incidence					Total	0/90 (0%) 0/90 (0%)	Mean 0%	SD 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%)	Mean 0%	SD 0%		
#Zymbal's Gland: Carcinoma or Adenoma										
		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