

NTP Historical Controls Report

All Routes and Vehicles

MICE

April 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.

The report combines all the data from all of the historical control studies into one section. To see this data broken up by route and vehicle you must run the "By Route And Vehicle" report.

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

Male

M1
M2
M3
M4
M5

Female

F1
F2
F3
F4
F5

the data would be shown as:

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

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

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

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 3
 Report Date: 07/01/2019

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 Northwest	052060104	10/06/08	729	50(5)	38(708)	52.1	Antimony trioxide
Battelle Northwest	052072504	08/31/09	729	50(5)	35(697)	51.1	2,3-Butanedione
Battelle Columbus Laboratory	052020304	07/10/07	730	50(1)	33(694)	52.6	Green Tea Extract
Battelle Columbus Laboratory	051026002	07/16/10	727	49(1)	34(691)	47.6	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052000604	04/03/07	730	50(1)	26(663)	55.6	Indole-3-carbinol
Battelle Northwest	052051504	05/05/08	729	50(5)	39(709)	52.6	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	729	50(5)	38(692)	52.4	Metal Working Fluids: TRIM VX
Battelle Northwest	051047204	01/31/11	729	50(5)	40(705)	52.7	p-Chloro-a,a,a-trifluorotoluene
Southern Research Institute	052020904	02/25/08	729	50(1)	29(657)	55.3	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
I. I. T. Research Institute	052010578	06/18/12	729	90(1)	66(687)	51.5	Radiofrequency Radiation
Battelle Columbus Laboratory	050303804	01/17/12	730	50(1)	26(683)	54.6	Sodium Tungstate Dihydrate
Battelle Columbus Laboratory	052032004	08/07/07	730	50(1)	33(687)	55.8	Tetrabromobisphenol A
Female							
Battelle Northwest	052060104	10/06/08	731	50(5)	36(692)	54.1	Antimony trioxide
Battelle Northwest	052072504	08/31/09	731	50(5)	36(697)	51.0	2,3-Butanedione
Battelle Columbus Laboratory	052020304	07/09/07	729	50(5)	34(665)	62.9	Green Tea Extract
Battelle Columbus Laboratory	051026002	07/15/10	726	50(4)	42(716)	54.7	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052000604	04/02/07	729	50(5)	33(702)	66.6	Indole-3-carbinol
Battelle Northwest	052051504	05/05/08	731	50(5)	39(696)	59.2	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	731	50(5)	35(692)	57.9	Metal Working Fluids: TRIM VX
Battelle Northwest	051047204	01/31/11	731	50(5)	38(700)	55.9	p-Chloro-a,a,a-trifluorotoluene
Southern Research Institute	052020904	02/25/08	731	50(5)	33(679)	57.7	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
I. I. T. Research Institute	052010578	06/18/12	739	90(1)	67(704)	62.6	Radiofrequency Radiation
Battelle Columbus Laboratory	050303804	01/16/12	729	50(4)	38(700)	61.6	Sodium Tungstate Dihydrate
Battelle Columbus Laboratory	052032004	08/06/07	729	50(5)	40(711)	66.5	Tetrabromobisphenol A

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

Version: Apr2019
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 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 4
 Report Date: 07/01/2019

		Male				Female			
#All Organs:									
Benign Tumors									
		37/50 (74%)	22/50 (44%)	43/50 (86%)	25/50 (50%)	15/50 (30%)	20/50 (40%)		
		28/49 (57%)	33/50 (66%)	39/50 (78%)	17/50 (34%)	17/50 (34%)	26/50 (52%)		
		32/50 (64%)	32/50 (64%)	30/50 (60%)	23/50 (46%)	24/50 (48%)	24/50 (48%)		
		61/90 (68%)	31/50 (62%)	38/50 (76%)	36/90 (40%)	20/50 (40%)	22/50 (44%)		
Overall Incidence	Total	426/639 (66.67%)	Mean 66.58%	SD 10.99%	Total	269/640 (42.03%)	Mean 42.17%	SD 7%	
.....									
#All Organs:									
Malignant Tumors									
		25/50 (50%)	27/50 (54%)	28/50 (56%)	25/50 (50%)	24/50 (48%)	18/50 (36%)		
		19/49 (39%)	27/50 (54%)	26/50 (52%)	11/50 (22%)	19/50 (38%)	30/50 (60%)		
		32/50 (64%)	25/50 (50%)	27/50 (54%)	27/50 (54%)	24/50 (48%)	16/50 (32%)		
		49/90 (54%)	30/50 (60%)	21/50 (42%)	33/90 (37%)	15/50 (30%)	18/50 (36%)		
Overall Incidence	Total	336/639 (52.58%)	Mean 52.43%	SD 6.89%	Total	260/640 (40.62%)	Mean 40.89%	SD 11.08%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		45/50 (90%)	37/50 (74%)	49/50 (98%)	35/50 (70%)	34/50 (68%)	29/50 (58%)		
		37/49 (76%)	48/50 (96%)	46/50 (92%)	25/50 (50%)	30/50 (60%)	41/50 (82%)		
		42/50 (84%)	44/50 (88%)	40/50 (80%)	38/50 (76%)	38/50 (76%)	34/50 (68%)		
		79/90 (88%)	42/50 (84%)	47/50 (94%)	59/90 (66%)	32/50 (64%)	32/50 (64%)		
Overall Incidence	Total	556/639 (87.01%)	Mean 86.94%	SD 7.71%	Total	427/640 (66.72%)	Mean 66.8%	SD 8.72%	
.....									
#All Organs:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/49 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		1/90 (1%)	1/50 (2%)	2/50 (4%)	4/90 (4%)	0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	8/639 (1.25%)	Mean 1.26%	SD 1.55%	Total	10/640 (1.56%)	Mean 1.37%	SD 1.63%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 5
 Report Date: 07/01/2019

		Male				Female			
#All Organs:									
Hemangiosarcoma									
		2/50 (4%)	1/50 (2%)	5/50 (10%)		4/50 (8%)	0/50 (0%)	2/50 (4%)	
		1/49 (2%)	4/50 (8%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	3/50 (6%)	
		0/50 (0%)	2/50 (4%)	1/50 (2%)		2/50 (4%)	3/50 (6%)	0/50 (0%)	
		2/90 (2%)	5/50 (10%)	1/50 (2%)		2/90 (2%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	25/639 (3.91%)	Mean 4.02%	SD 3.4%	Total	18/640 (2.81%)	Mean 2.85%	SD 2.75%	
.....									
#All Organs:									
Hemangiosarcoma or Hemangioma									
		2/50 (4%)	1/50 (2%)	7/50 (14%)		4/50 (8%)	0/50 (0%)	2/50 (4%)	
		2/49 (4%)	4/50 (8%)	2/50 (4%)		2/50 (4%)	1/50 (2%)	3/50 (6%)	
		0/50 (0%)	2/50 (4%)	1/50 (2%)		3/50 (6%)	3/50 (6%)	1/50 (2%)	
		3/90 (3%)	6/50 (12%)	3/50 (6%)		6/90 (7%)	1/50 (2%)	2/50 (4%)	
Overall Incidence	Total	33/639 (5.16%)	Mean 5.28%	SD 4.14%	Total	28/640 (4.38%)	Mean 4.22%	SD 2.38%	
.....									
#All Organs:									
Histiocytic Sarcoma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		3/50 (6%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	2/50 (4%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		4/50 (8%)	2/50 (4%)	1/50 (2%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		8/90 (9%)	2/50 (4%)	1/50 (2%)	
Overall Incidence	Total	6/639 (0.94%)	Mean 1%	SD 1.35%	Total	26/640 (4.06%)	Mean 3.74%	SD 2.68%	
.....									
#All Organs:									
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type									
		4/50 (8%)	6/50 (12%)	4/50 (8%)		7/50 (14%)	9/50 (18%)	7/50 (14%)	
		3/49 (6%)	3/50 (6%)	3/50 (6%)		5/50 (10%)	6/50 (12%)	18/50 (36%)	
		6/50 (12%)	6/50 (12%)	5/50 (10%)		10/50 (20%)	9/50 (18%)	7/50 (14%)	
		6/90 (7%)	5/50 (10%)	3/50 (6%)		2/90 (2%)	4/50 (8%)	9/50 (18%)	
Overall Incidence	Total	54/639 (8.45%)	Mean 8.57%	SD 2.51%	Total	93/640 (14.53%)	Mean 15.35%	SD 8.21%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1/N
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 6
 Report Date: 07/01/2019

		Male				Female			
#All Organs:									
Malignant Schwannoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	2/639 (0.31%)	Mean 0.33%	SD 0.78%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#All Organs:									
Osteosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		3/90 (3%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	3/640 (0.47%)	Mean 0.28%	SD 0.96%	
.....									
#All Organs:									
Osteosarcoma or Osteoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		3/90 (3%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	3/640 (0.47%)	Mean 0.28%	SD 0.96%	
.....									
*Adrenal Cortex:									
Adenoma									
		4/49 (8%)	2/50 (4%)	1/49 (2%)		1/50 (2%)	1/50 (2%)	0/49 (0%)	
		1/48 (2%)	0/50 (0%)	9/49 (18%)		0/50 (0%)	2/49 (4%)	0/49 (0%)	
		3/50 (6%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	1/50 (2%)		1/84 (1%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	22/635 (3.46%)	Mean 3.72%	SD 5.28%	Total	5/631 (0.79%)	Mean 0.77%	SD 1.31%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ALL ROUTES
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Page: 7
 Report Date: 07/01/2019

		Male				Female			
*Adrenal Medulla:									
 Pheochromocytoma Benign									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/49 (0%)	
		1/48 (2%)	0/50 (0%)	1/48 (2%)	0/50 (0%)	0/49 (0%)	1/49 (2%)	1/49 (2%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/49 (0%)	0/49 (0%)	
		0/90 (0%)	0/49 (0%)	0/50 (0%)	0/83 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	3/633 (0.47%)	Mean 0.51%	SD 0.93%	Total	6/629 (0.95%)	Mean 1%	SD 1.35%	
.....									
*Adrenal Medulla:									
 Pheochromocytoma Malignant									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	
		0/48 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	
		0/90 (0%)	0/49 (0%)	0/50 (0%)	2/83 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/633 (0%)	Mean 0%	SD 0%	Total	2/629 (0.32%)	Mean 0.2%	SD 0.7%	
.....									
*Adrenal Medulla:									
 Pheochromocytoma: Benign, Complex, Malignant, NOS									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/49 (0%)	
		1/48 (2%)	0/50 (0%)	1/48 (2%)	0/50 (0%)	0/49 (0%)	1/49 (2%)	1/49 (2%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/49 (0%)	0/49 (0%)	
		0/90 (0%)	0/49 (0%)	0/50 (0%)	2/83 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	3/633 (0.47%)	Mean 0.51%	SD 0.93%	Total	8/629 (1.27%)	Mean 1.2%	SD 1.37%	
.....									
#Blood Vessel:									
 Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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 Vehicle: ALL VEHICLES

Page: 8
 Report Date: 07/01/2019

		Male				Female			
#Blood Vessel:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Bone Marrow:									
Hemangiosarcoma									
		0/49 (0%)	0/48 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/47 (0%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	2/50 (4%)	0/50 (0%)		0/90 (0%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	4/634 (0.63%)	Mean 0.67%	SD 1.3%	Total	1/635 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Bone Marrow:									
Mast Cell Tumor Malignant									
		0/49 (0%)	1/48 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/47 (2%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	4/634 (0.63%)	Mean 0.68%	SD 1.01%	Total	0/635 (0%)	Mean 0%	SD 0%	
.....									
*Bone Marrow:									
Sarcoma									
		0/49 (0%)	0/48 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/47 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	0/634 (0%)	Mean 0%	SD 0%	Total	1/635 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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

Page: 9
 Report Date: 07/01/2019

		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%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Bone:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	
.....									
#Bone:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 10
 Report Date: 07/01/2019

		Male				Female							
#Bone:													
Osteosarcoma or Osteoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	0/50	(0%)	1/90	(1%)	0/50	(0%)		
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/640 (0.16%)		Mean 0.09%	SD 0.32%	
.....													
#Bone:													
Sarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)		
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/640 (0.16%)		Mean 0.17%	SD 0.58%	
.....													
*Clitoral/Preputial Gland:													
Mast Cell Tumor													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)	0/47	(0%)	0/49	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/44	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/46	(0%)	0/48	(0%)	0/49	(0%)
		1/89	(1%)	0/49	(0%)	0/50	(0%)	0/82	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	1/636 (0.16%)		Mean 0.09%		SD 0.32%		Total	0/611 (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%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	1/50	(2%)	0/90	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	0/640 (0%)		Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 11
 Report Date: 07/01/2019

		Male				Female			
#Coagulating Gland:									
Sarcoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (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%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
*Epididymis:									
Mast Cell Tumor									
		0/50 (0%)	0/49 (0%)	0/50 (0%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		1/90 (1%)	0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	1/638 (0.16%)	Mean 0.09%	SD 0.32%					
.....									
#Harderian Gland:									
Adenoma									
		6/50 (12%)	3/50 (6%)	7/50 (14%)		3/50 (6%)	3/50 (6%)	2/50 (4%)	
		6/49 (12%)	6/50 (12%)	7/50 (14%)		1/50 (2%)	3/50 (6%)	2/50 (4%)	
		4/50 (8%)	5/50 (10%)	5/50 (10%)		1/50 (2%)	2/50 (4%)	9/50 (18%)	
		6/90 (7%)	2/50 (4%)	7/50 (14%)		4/90 (4%)	1/50 (2%)	2/50 (4%)	
Overall Incidence	Total	64/639 (10.02%)	Mean 10.24%	SD 3.4%	Total	33/640 (5.16%)	Mean 5.2%	SD 4.29%	
.....									
#Harderian Gland:									
Carcinoma									
		1/50 (2%)	0/50 (0%)	1/50 (2%)		4/50 (8%)	1/50 (2%)	2/50 (4%)	
		1/49 (2%)	1/50 (2%)	5/50 (10%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		2/50 (4%)	1/50 (2%)	1/50 (2%)		3/50 (6%)	0/50 (0%)	1/50 (2%)	
		3/90 (3%)	1/50 (2%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	18/639 (2.82%)	Mean 2.78%	SD 2.46%	Total	13/640 (2.03%)	Mean 2.17%	SD 2.62%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 12
 Report Date: 07/01/2019

		Male				Female			
#Harderian Gland:									
Carcinoma or Adenoma									
		7/50 (14%)	3/50 (6%)	8/50 (16%)	7/50 (14%)	4/50 (8%)	4/50 (8%)		
		7/49 (14%)	7/50 (14%)	12/50 (24%)	2/50 (4%)	3/50 (6%)	2/50 (4%)		
		6/50 (12%)	6/50 (12%)	6/50 (12%)	4/50 (8%)	2/50 (4%)	10/50 (20%)		
		9/90 (10%)	3/50 (6%)	8/50 (16%)	4/90 (4%)	1/50 (2%)	3/50 (6%)		
Overall Incidence	Total	82/639 (12.83%)	Mean 13.02%	SD 4.79%	Total	46/640 (7.19%)	Mean 7.37%	SD 5.04%	
.....									
#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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
*Heart:									
Hemangiosarcoma									
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Large: Cecum:									
Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 13
 Report Date: 07/01/2019

		Male				Female			
#Intestine Small: Duodenum:									
Adenoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	2/50 (4%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	7/639 (1.1%)	Mean 1.17%	SD 1.8%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
#Intestine Small: Duodenum:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (0%)	Mean 0%	SD 0%	
#Intestine Small: Duodenum:									
Polyp Adenomatous									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 14
 Report Date: 07/01/2019

		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%)
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/639 (0.31%)	Mean 0.33%	SD 0.78%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		1/50 (2%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		2/90 (2%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	7/639 (1.1%)	Mean 1.02%	SD 1.36%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#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%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 15
 Report Date: 07/01/2019

		Male				Female			
#Intestine Small: Site Unspecified:									
Adenoma									
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	3/50 (6%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	9/639 (1.41%)	Mean 1.5%	SD 2.11%	Total	3/640 (0.47%)	Mean 0.5%	SD 0.9%	
.....									
#Intestine Small: Site Unspecified:									
Carcinoma									
		1/50 (2%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		3/90 (3%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	8/639 (1.25%)	Mean 1.11%	SD 1.49%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		3/50 (6%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	3/50 (6%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		2/50 (4%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		3/90 (3%)	0/50 (0%)	2/50 (4%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	17/639 (2.66%)	Mean 2.61%	SD 2.28%	Total	3/640 (0.47%)	Mean 0.5%	SD 0.9%	
.....									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 16
 Report Date: 07/01/2019

		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%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Site Unspecified:									
Polyp Adenomatous									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
*Islets, Pancreatic:									
Adenoma									
		0/49 (0%)	0/48 (0%)	1/50 (2%)		0/50 (0%)	0/49 (0%)	1/50 (2%)	
		1/47 (2%)	1/50 (2%)	2/50 (4%)		0/49 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/88 (0%)	1/47 (2%)	0/50 (0%)		0/87 (0%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	8/629 (1.27%)	Mean 1.35%	SD 1.32%	Total	3/633 (0.47%)	Mean 0.5%	SD 0.9%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		0/49 (0%)	0/48 (0%)	1/50 (2%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	
		0/47 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/88 (0%)	0/47 (0%)	0/50 (0%)		1/87 (1%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	1/629 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/633 (0.16%)	Mean 0.1%	SD 0.33%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 17
 Report Date: 07/01/2019

		Male				Female			
*Islets, Pancreatic:									
 Carcinoma or Adenoma									
		0/49 (0%)	0/48 (0%)	2/50 (4%)		0/50 (0%)	0/49 (0%)	1/50 (2%)	
		1/47 (2%)	1/50 (2%)	2/50 (4%)		0/49 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/88 (0%)	1/47 (2%)	0/50 (0%)		1/87 (1%)	0/48 (0%)	0/50 (0%)	
Overall Incidence	Total	9/629 (1.43%)	Mean 1.52%	SD 1.52%	Total	4/633 (0.63%)	Mean 0.6%	SD 0.91%	
.....									
*Kidney: Renal Tubule:									
 Adenoma									
		0/50 (0%)	0/49 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		2/89 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/637 (0.16%)	Mean 0.17%	SD 0.58%	Total	3/637 (0.47%)	Mean 0.35%	SD 0.83%	
.....									
*Kidney: Renal Tubule:									
 Carcinoma									
		0/50 (0%)	0/49 (0%)	2/50 (4%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/637 (0.31%)	Mean 0.33%	SD 1.15%	Total	1/637 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Kidney: Renal Tubule:									
 Carcinoma or Adenoma									
		0/50 (0%)	0/49 (0%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		2/89 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	3/637 (0.47%)	Mean 0.5%	SD 1.73%	Total	4/637 (0.63%)	Mean 0.52%	SD 0.94%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 18
 Report Date: 07/01/2019

		Male				Female			
*Kidney: Renal Tubule: Hemangiosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/637 (0.16%)		Mean 0.17%	SD 0.58%	Total	0/637 (0%)		Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Mast Cell Tumor									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/637 (0.16%)		Mean 0.09%	SD 0.32%	Total	0/637 (0%)		Mean 0% SD 0%
.....									
*Kidney: Renal Tubule: Renal Mesenchymal Tumor									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/89 (1%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/637 (0%)		Mean 0%	SD 0%	Total	1/637 (0.16%)		Mean 0.09% SD 0.32%
.....									
*Liver: Cholangiocarcinoma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/639 (0.31%)		Mean 0.33%	SD 0.78%	Total	0/639 (0%)		Mean 0% SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 19
 Report Date: 07/01/2019

		Male				Female			
*Liver:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	2/50 (4%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	5/639 (0.78%)	Mean 0.83%	SD 1.59%	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Liver:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/49 (0%)	4/50 (8%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	2/50 (4%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	10/639 (1.56%)	Mean 1.59%	SD 2.81%	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Liver:									
Hepatoblastoma									
		2/50 (4%)	1/50 (2%)	2/50 (4%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		1/49 (2%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		6/90 (7%)	4/50 (8%)	2/50 (4%)		1/89 (1%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	23/639 (3.6%)	Mean 3.39%	SD 2.53%	Total	4/639 (0.63%)	Mean 0.59%	SD 0.91%	
.....									
*Liver:									
Hepatocellular Adenoma									
		30/50 (60%)	17/50 (34%)	35/50 (70%)		11/50 (22%)	6/50 (12%)	12/50 (24%)	
		21/49 (43%)	26/50 (52%)	24/50 (48%)		3/50 (6%)	7/50 (14%)	14/50 (28%)	
		23/50 (46%)	25/50 (50%)	23/50 (46%)		9/50 (18%)	12/50 (24%)	5/50 (10%)	
		52/90 (58%)	26/50 (52%)	32/50 (64%)		19/89 (21%)	11/50 (22%)	13/50 (26%)	
Overall Incidence	Total	334/639 (52.27%)	Mean 51.89%	SD 9.84%	Total	122/639 (19.09%)	Mean 18.95%	SD 6.93%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 20
 Report Date: 07/01/2019

		Male				Female			
*Liver:									
Hepatocellular Carcinoma									
		15/50 (30%)	17/50 (34%)	15/50 (30%)	6/50 (12%)	5/50 (10%)	5/50 (10%)		
		8/49 (16%)	12/50 (24%)	11/50 (22%)	1/50 (2%)	6/50 (12%)	10/50 (20%)		
		21/50 (42%)	8/50 (16%)	18/50 (36%)	7/50 (14%)	7/50 (14%)	4/50 (8%)		
		28/90 (31%)	15/50 (30%)	11/50 (22%)	8/89 (9%)	2/50 (4%)	2/50 (4%)		
Overall Incidence	Total	179/639 (28.01%)	Mean 27.79%	SD 7.89%	Total	63/639 (9.86%)	Mean 9.92%	SD 5.05%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		16/50 (32%)	18/50 (36%)	17/50 (34%)	6/50 (12%)	6/50 (12%)	5/50 (10%)		
		8/49 (16%)	15/50 (30%)	11/50 (22%)	1/50 (2%)	6/50 (12%)	10/50 (20%)		
		21/50 (42%)	9/50 (18%)	18/50 (36%)	7/50 (14%)	7/50 (14%)	4/50 (8%)		
		32/90 (36%)	17/50 (34%)	12/50 (24%)	9/89 (10%)	2/50 (4%)	2/50 (4%)		
Overall Incidence	Total	194/639 (30.36%)	Mean 29.99%	SD 8.06%	Total	65/639 (10.17%)	Mean 10.18%	SD 5.08%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		39/50 (78%)	31/50 (62%)	40/50 (80%)	14/50 (28%)	11/50 (22%)	14/50 (28%)		
		26/49 (53%)	35/50 (70%)	32/50 (64%)	4/50 (8%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	30/50 (60%)	31/50 (62%)	15/50 (30%)	18/50 (36%)	8/50 (16%)		
		67/90 (74%)	33/50 (66%)	39/50 (78%)	25/89 (28%)	13/50 (26%)	15/50 (30%)		
Overall Incidence	Total	437/639 (68.39%)	Mean 67.96%	SD 8.36%	Total	169/639 (26.45%)	Mean 26.34%	SD 8.44%	
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		39/50 (78%)	32/50 (64%)	40/50 (80%)	14/50 (28%)	12/50 (24%)	14/50 (28%)		
		26/49 (53%)	36/50 (72%)	32/50 (64%)	4/50 (8%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	31/50 (62%)	31/50 (62%)	15/50 (30%)	18/50 (36%)	8/50 (16%)		
		68/90 (76%)	34/50 (68%)	39/50 (78%)	25/89 (28%)	13/50 (26%)	15/50 (30%)		
Overall Incidence	Total	442/639 (69.17%)	Mean 68.72%	SD 8.19%	Total	170/639 (26.6%)	Mean 26.51%	SD 8.36%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Liver:									
Hepatocolangiocarcinoma									
		1/50 (2%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	7/639 (1.1%)	Mean 1.1%	SD 1.78%	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Liver:									
Mast Cell Tumor									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/639 (0%)	Mean 0%	SD 0%	
.....									
*Lung:									
Alveolar/Bronchiolar Adenoma									
		10/50 (20%)	5/50 (10%)	12/50 (24%)		1/50 (2%)	3/50 (6%)	5/50 (10%)	
		7/49 (14%)	4/50 (8%)	5/50 (10%)		5/50 (10%)	1/50 (2%)	1/50 (2%)	
		6/50 (12%)	11/50 (22%)	5/50 (10%)		4/50 (8%)	5/50 (10%)	1/50 (2%)	
		13/90 (14%)	5/50 (10%)	6/50 (12%)		3/90 (3%)	2/50 (4%)	5/50 (10%)	
Overall Incidence	Total	89/639 (13.93%)	Mean 13.89%	SD 5.29%	Total	36/640 (5.62%)	Mean 5.78%	SD 3.6%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		4/50 (8%)	5/50 (10%)	2/50 (4%)		2/50 (4%)	3/50 (6%)	1/50 (2%)	
		5/49 (10%)	4/50 (8%)	8/50 (16%)		0/50 (0%)	2/50 (4%)	4/50 (8%)	
		10/50 (20%)	6/50 (12%)	5/50 (10%)		5/50 (10%)	0/50 (0%)	0/50 (0%)	
		13/90 (14%)	2/50 (4%)	4/50 (8%)		3/90 (3%)	2/50 (4%)	1/50 (2%)	
Overall Incidence	Total	68/639 (10.64%)	Mean 10.39%	SD 4.69%	Total	23/640 (3.59%)	Mean 3.61%	SD 3.17%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 22
 Report Date: 07/01/2019

		Male				Female			
*Lung:									
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma									
		13/50 (26%)	9/50 (18%)	14/50 (28%)		3/50 (6%)	6/50 (12%)	6/50 (12%)	
		11/49 (22%)	8/50 (16%)	13/50 (26%)		5/50 (10%)	3/50 (6%)	4/50 (8%)	
		14/50 (28%)	17/50 (34%)	10/50 (20%)		9/50 (18%)	5/50 (10%)	1/50 (2%)	
		23/90 (26%)	7/50 (14%)	10/50 (20%)		6/90 (7%)	4/50 (8%)	6/50 (12%)	
Overall Incidence	Total	149/639 (23.32%)	Mean 23.17%	SD 5.79%	Total	58/640 (9.06%)	Mean 9.22%	SD 4.09%	
.....									
*Lung:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Lymph Node:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 23
 Report Date: 07/01/2019

		Male				Female						
#Lymph Node:												
Mast Cell Tumor												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%		Total	0/640 (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%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%		Total	0/640 (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%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	1/50	(2%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	0/640 (0%)	Mean 0%		SD 0%
.....												
#Lymph Node, Mesenteric:												
Hemangioma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%		Total	1/640 (0.16%)	Mean 0.17%		SD 0.58%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 24
 Report Date: 07/01/2019

		Male				Female			
#Lymph Node, Mesenteric:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (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%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	0/640 (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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Mammary Gland:									
Adenoma									
		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%)		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%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 25
 Report Date: 07/01/2019

		Male				Female			
#Mammary Gland:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	2/639 (0.31%)	Mean 0.34%	SD 0.79%	Total	6/640 (0.94%)	Mean 1%	SD 1.35%	
.....									
#Mammary Gland:									
Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	2/639 (0.31%)	Mean 0.34%	SD 0.79%	Total	8/640 (1.25%)	Mean 1.33%	SD 1.3%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma or Adenoma									
		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%)		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%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma, Carcinoma, or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	2/639 (0.31%)	Mean 0.34%	SD 0.79%	Total	8/640 (1.25%)	Mean 1.33%	SD 1.3%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 26
 Report Date: 07/01/2019

		Male				Female			
#Mesentery:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	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%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	
.....									
#Mesentery:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/639 (0.31%)	Mean 0.26%	SD 0.63%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Mesentery:									
Lipoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Mesentery:									
Sarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 27
 Report Date: 07/01/2019

		Male				Female			
*Nose:									
Adenoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/48 (2%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/637 (0%)	Mean 0%	SD 0%	Total	1/637 (0.16%)	Mean 0.17%	SD 0.6%	
.....									
*Nose:									
Polyp									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/48 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/637 (0.16%)	Mean 0.17%	SD 0.59%	Total	0/637 (0%)	Mean 0%	SD 0%	
.....									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Papilloma Squamous or Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#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%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 28
 Report Date: 07/01/2019

		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%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	2/50 (4%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%	SD 0.58%	Total	3/640 (0.47%)		Mean 0.5% SD 1.24%
.....									
#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%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)		Mean 0%	SD 0%	Total	1/640 (0.16%)		Mean 0.17% SD 0.58%
.....									
*Ovary:									
Cystadenocarcinoma									
						0/50 (0%)	0/49 (0%)	1/50 (2%)	
						0/48 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/48 (0%)	
						0/75 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total					1/619 (0.16%)		Mean 0.17% SD 0.58%	
.....									
*Ovary:									
Cystadenoma									
						1/50 (2%)	0/49 (0%)	3/50 (6%)	
						4/48 (8%)	1/50 (2%)	2/50 (4%)	
						1/50 (2%)	2/50 (4%)	2/48 (4%)	
						2/75 (3%)	3/49 (6%)	2/50 (4%)	
Overall Incidence	Total					23/619 (3.72%)		Mean 3.77% SD 2.27%	

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

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 29
 Report Date: 07/01/2019

	Male		Female			
*Ovary:						
Granulosa Cell Tumor Benign						
	0/50	(0%)	0/49	(0%)	0/50	(0%)
	0/48	(0%)	0/50	(0%)	1/50	(2%)
	1/50	(2%)	0/50	(0%)	1/48	(2%)
	1/75	(1%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total 4/619 (0.65%)		Mean 0.62%		SD 0.93%	
.....						
*Ovary:						
Granulosa Cell Tumor Malignant						
	1/50	(2%)	0/49	(0%)	0/50	(0%)
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	0/50	(0%)	0/48	(0%)
	0/75	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total 1/619 (0.16%)		Mean 0.17%		SD 0.58%	
.....						
*Ovary:						
Granulosa Cell Tumor: Benign, Malignant, NOS						
	1/50	(2%)	0/49	(0%)	0/50	(0%)
	0/48	(0%)	0/50	(0%)	1/50	(2%)
	1/50	(2%)	0/50	(0%)	1/48	(2%)
	1/75	(1%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total 5/619 (0.81%)		Mean 0.78%		SD 0.99%	
.....						
*Ovary:						
Granulosa-Theca Tumor Malignant						
	0/50	(0%)	1/49	(2%)	0/50	(0%)
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	1/50	(2%)	0/48	(0%)
	0/75	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total 2/619 (0.32%)		Mean 0.34%		SD 0.79%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 30
 Report Date: 07/01/2019

	Male		Female			
*Ovary:						
Hemangioma						
		0/50 (0%)	0/49 (0%)	0/50 (0%)		
		1/48 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		2/75 (3%)	0/49 (0%)	0/50 (0%)		
Overall Incidence	Total	3/619 (0.48%)	Mean 0.4%	SD 0.93%		
.....						
*Ovary:						
Hemangiosarcoma						
		1/50 (2%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		0/75 (0%)	0/49 (0%)	0/50 (0%)		
Overall Incidence	Total	1/619 (0.16%)	Mean 0.17%	SD 0.58%		
.....						
*Ovary:						
Luteoma						
		0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	2/50 (4%)	0/48 (0%)		
		0/75 (0%)	1/49 (2%)	0/50 (0%)		
Overall Incidence	Total	4/619 (0.65%)	Mean 0.67%	SD 1.31%		
.....						
*Ovary:						
Sarcoma						
		0/50 (0%)	0/49 (0%)	1/50 (2%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		0/75 (0%)	0/49 (0%)	0/50 (0%)		
Overall Incidence	Total	1/619 (0.16%)	Mean 0.17%	SD 0.58%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 31
 Report Date: 07/01/2019

		Male				Female								
*Ovary:														
Thecoma Malignant														
					0/50	(0%)	0/49	(0%)	0/50	(0%)				
					0/48	(0%)	0/50	(0%)	0/50	(0%)				
					0/50	(0%)	0/50	(0%)	0/48	(0%)				
					1/75	(1%)	0/49	(0%)	0/50	(0%)				
Overall Incidence					Total	1/619	(0.16%)	Mean	0.11%	SD	0.38%			
.....														
*Ovary:														
Tubulostromal Adenoma														
					0/50	(0%)	0/49	(0%)	0/50	(0%)				
					0/48	(0%)	1/50	(2%)	0/50	(0%)				
					0/50	(0%)	0/50	(0%)	0/48	(0%)				
					0/75	(0%)	0/49	(0%)	0/50	(0%)				
Overall Incidence					Total	1/619	(0.16%)	Mean	0.17%	SD	0.58%			
.....														
*Pancreas:														
Mast Cell Tumor														
		0/49	(0%)	0/48	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/87	(1%)	0/50	(0%)	0/50	(0%)	0/87	(0%)	0/50	(0%)			
Overall Incidence	Total	1/633	(0.16%)	Mean	0.1%	SD	0.33%	Total	0/636	(0%)	Mean	0%		
											SD	0%		
.....														
*Parathyroid Gland:														
Adenoma														
		0/27	(0%)	0/40	(0%)	0/41	(0%)	0/27	(0%)	0/38	(0%)	0/35	(0%)	
		0/32	(0%)	0/48	(0%)	0/34	(0%)	0/21	(0%)	0/43	(0%)	0/26	(0%)	
		0/28	(0%)	0/36	(0%)	0/48	(0%)	1/35	(3%)	0/36	(0%)	0/44	(0%)	
		0/68	(0%)	0/44	(0%)	0/45	(0%)	0/60	(0%)	0/45	(0%)	0/34	(0%)	
Overall Incidence	Total	0/491	(0%)	Mean	0%	SD	0%	Total	1/444	(0.23%)	Mean	0.24%	SD	0.82%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 32
 Report Date: 07/01/2019

		Male				Female			
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		0/49 (0%)	0/50 (0%)	1/49 (2%)	9/49 (18%)	2/49 (4%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/50 (0%)	0/47 (0%)	8/48 (17%)	4/50 (8%)	5/50 (10%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	6/80 (8%)	2/50 (4%)	1/50 (2%)		
Overall Incidence	Total	2/624 (0.32%)	Mean 0.34%	SD 0.79%	Total	45/622 (7.23%)	Mean 7.23%	SD 5.9%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	3/48 (6%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	0/80 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/624 (0%)	Mean 0%	SD 0%	Total	3/622 (0.48%)	Mean 0.52%	SD 1.8%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma or Adenoma									
		0/49 (0%)	0/50 (0%)	1/49 (2%)	9/49 (18%)	2/49 (4%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/50 (0%)	0/47 (0%)	11/48 (23%)	4/50 (8%)	5/50 (10%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	6/80 (8%)	2/50 (4%)	1/50 (2%)		
Overall Incidence	Total	2/624 (0.32%)	Mean 0.34%	SD 0.79%	Total	48/622 (7.72%)	Mean 7.75%	SD 6.98%	
.....									
*Pituitary Gland: Pars Intermedia:									
Adenoma									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	0/80 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/624 (0%)	Mean 0%	SD 0%	Total	2/622 (0.32%)	Mean 0.35%	SD 0.81%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 33
 Report Date: 07/01/2019

		Male				Female			
*Pituitary Gland: Pars Intermedia:									
 Carcinoma									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	0/80 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/624 (0%)	Mean 0%	SD 0%	Total	1/622 (0.16%)	Mean 0.17%	SD 0.59%	
.....									
*Pituitary Gland: Pars Intermedia:									
 Carcinoma or Adenoma									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	0/80 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/624 (0%)	Mean 0%	SD 0%	Total	3/622 (0.48%)	Mean 0.52%	SD 0.94%	
.....									
*Pituitary Gland: Pars Intermedia:									
 Schwannoma Malignant									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/48 (0%)	0/50 (0%)	0/80 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/624 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/622 (0%)	Mean 0%	SD 0%	
.....									
*Prostate:									
 Mast Cell Tumor									
		0/49 (0%)	0/49 (0%)	0/50 (0%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		1/90 (1%)	0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	1/637 (0.16%)	Mean 0.09%	SD 0.32%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 34
 Report Date: 07/01/2019

		Male				Female							
*Salivary Glands:													
Adenoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	0/637 (0%)	Mean 0%		SD 0%	
.....													
*Salivary Glands:													
Carcinoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/637 (0.16%)	Mean 0.17%		SD 0.58%	
.....													
*Salivary Glands:													
Carcinoma or Adenoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	1/637 (0.16%)	Mean 0.17%		SD 0.58%	
.....													
*Salivary Glands:													
Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	0/637 (0%)	Mean 0%		SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 35
 Report Date: 07/01/2019

		Male				Female							
*Salivary Glands:													
Mast Cell Tumor													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/90	(1%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%		Total	0/637 (0%)	Mean 0%		SD 0%	
.....													
*Salivary Glands:													
Myxosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/89	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/637 (0.16%)	Mean 0.17%		SD 0.58%	
.....													
#Seminal Vesicle:													
Adenoma													
		1/50	(2%)	0/50	(0%)	0/50	(0%)						
		0/49	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/90	(0%)	0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%							
.....													
#Seminal Vesicle:													
Fibroma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/49	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)						
		1/90	(1%)	0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%							

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 36
 Report Date: 07/01/2019

		Male				Female			
#Skeletal Muscle:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	
.....									
#Skeletal Muscle:									
Rhabdomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	6/640 (0.94%)	Mean 1%	SD 1.6%	
.....									
#Skeletal Muscle:									
Rhabdomyosarcoma or Rhabdomyoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	6/640 (0.94%)	Mean 1%	SD 1.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 37
 Report Date: 07/01/2019

		Male				Female			
#Skeletal Muscle:									
Sarcoma									
		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%)		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%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.09%	SD 0.32%	Total	3/640 (0.47%)	Mean 0.5%	SD 0.9%	
.....									
#Skin:									
Basal Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#Skin:									
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#Skin:									
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

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

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 38
 Report Date: 07/01/2019

		Male				Female								
#Skin:														
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)	1/50	(2%)	0/90	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	3/640 (0.47%)		Mean 0.5%		SD 0.9%	

#Skin:														
Fibroma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)	0/50	(0%)	1/90	(1%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/640 (0.16%)		Mean 0.09%		SD 0.32%	

#Skin:														
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	1/50	(2%)	
		1/90	(1%)	0/50	(0%)	1/50	(2%)	6/90	(7%)	1/50	(2%)	1/50	(2%)	
Overall Incidence	Total	5/639 (0.78%)		Mean 0.76%		SD 0.97%		Total	13/640 (2.03%)		Mean 1.72%		SD 2.02%	

#Skin:														
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	1/50	(2%)	
		1/90	(1%)	0/50	(0%)	1/50	(2%)	6/90	(7%)	1/50	(2%)	1/50	(2%)	
Overall Incidence	Total	5/639 (0.78%)		Mean 0.76%		SD 0.97%		Total	13/640 (2.03%)		Mean 1.72%		SD 2.02%	

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

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 39
 Report Date: 07/01/2019

		Male				Female			
#Skin:									
Fibrosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		3/90 (3%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	2/639 (0.31%)	Mean 0.33%	SD 0.78%	Total	6/640 (0.94%)	Mean 0.78%	SD 1.2%	
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/90 (1%)	0/50 (0%)	1/50 (2%)		5/90 (6%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	5/639 (0.78%)	Mean 0.76%	SD 0.97%	Total	12/640 (1.88%)	Mean 1.63%	SD 1.78%	
.....									
#Skin:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
		0/50 (0%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)		2/90 (2%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	3/639 (0.47%)	Mean 0.43%	SD 1.17%	Total	6/640 (0.94%)	Mean 0.85%	SD 1.36%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 40
 Report Date: 07/01/2019

		Male				Female			
#Skin:									
Keratoacanthoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Lipoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/639 (0.47%)	Mean 0.43%	SD 1.17%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	
.....									
#Skin:									
Liposarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Malignant Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (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%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	2/639 (0.31%)	Mean 0.26%	SD 0.63%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 41
 Report Date: 07/01/2019

		Male				Female			
#Skin:									
Melanoma Benign									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	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%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Neurofibrosarcoma or Schwannoma (malignant or NOS)									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Osteosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.09%	SD 0.32%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 42
 Report Date: 07/01/2019

		Male				Female							
#Skin:													
Pilomatrixoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/90	(1%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)		
Overall Incidence	Total	1/639 (0.16%)		Mean 0.09%		SD 0.32%		Total	0/640 (0%)		Mean 0%	SD 0%	
.....													
#Skin:													
Sarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	1/50	(2%)	2/90	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/639 (0.16%)		Mean 0.17%		SD 0.58%		Total	4/640 (0.62%)		Mean 0.52%	SD 0.94%	
.....													
#Skin:													
Schwannoma Malignant													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	1/640 (0.16%)		Mean 0.17%	SD 0.58%	
.....													
#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%)	1/50	(2%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)	0/50	(0%)	0/90	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/639 (0%)		Mean 0%		SD 0%		Total	2/640 (0.31%)		Mean 0.33%	SD 0.78%	

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

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 43
 Report Date: 07/01/2019

		Male				Female			
#Skin:									
Squamous Cell Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Squamous Cell Papilloma or Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Skin:									
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 44
 Report Date: 07/01/2019

		Male				Female			
#Spinal Cord:									
Schwannoma Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
*Spleen:									
Hemangiosarcoma									
		2/49 (4%)	0/48 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/48 (2%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	1/50 (2%)	
		0/49 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/87 (0%)	4/49 (8%)	1/50 (2%)		0/86 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	13/630 (2.06%)	Mean 2.19%	SD 2.37%	Total	3/635 (0.47%)	Mean 0.5%	SD 0.9%	
.....									
#Stomach, Forestomach:									
Mast Cell Tumor Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (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%)	1/50 (2%)	
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 45
 Report Date: 07/01/2019

		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	2/50 (4%)	
		2/49 (4%)	2/50 (4%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	2/50 (4%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	5/50 (10%)		1/90 (1%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	14/639 (2.19%)	Mean 2.34%	SD 2.94%	Total	9/640 (1.41%)	Mean 1.43%	SD 1.24%	
.....									
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
		2/49 (4%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	2/50 (4%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	5/50 (10%)		1/90 (1%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	13/639 (2.03%)	Mean 2.17%	SD 2.89%	Total	8/640 (1.25%)	Mean 1.26%	SD 0.96%	
.....									
#Stomach, Glandular:									
Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/639 (0%)	Mean 0%	SD 0%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
#Stomach, Glandular:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 46
 Report Date: 07/01/2019

		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%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	1/50 (2%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	1/640 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Testis:									
Adenoma									
		0/49 (0%)	0/49 (0%)	1/50 (2%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	2/50 (4%)					
		2/90 (2%)	0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	5/637 (0.78%)	Mean 0.69%	SD 1.32%					
.....									
*Testis:									
Hemangioma									
		0/49 (0%)	0/49 (0%)	0/50 (0%)					
		1/49 (2%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		0/90 (0%)	0/50 (0%)	0/50 (0%)					
Overall Incidence	Total	1/637 (0.16%)	Mean 0.17%	SD 0.59%					
.....									
*Thymus:									
Thymoma Benign									
		0/41 (0%)	0/43 (0%)	0/44 (0%)		0/47 (0%)	0/47 (0%)	0/47 (0%)	0/47 (0%)
		0/45 (0%)	1/49 (2%)	0/41 (0%)		0/48 (0%)	0/49 (0%)	0/44 (0%)	0/44 (0%)
		0/44 (0%)	0/48 (0%)	0/40 (0%)		0/48 (0%)	0/50 (0%)	0/48 (0%)	0/48 (0%)
		0/75 (0%)	0/45 (0%)	0/47 (0%)		0/85 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/562 (0.18%)	Mean 0.17%	SD 0.59%	Total	0/612 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 47
 Report Date: 07/01/2019

		Male				Female			
*Thymus:									
Thymoma NOS									
		0/41 (0%)	0/43 (0%)	0/44 (0%)		1/47 (2%)	0/47 (0%)	0/47 (0%)	
		0/45 (0%)	0/49 (0%)	0/41 (0%)		0/48 (0%)	0/49 (0%)	0/44 (0%)	
		0/44 (0%)	0/48 (0%)	0/40 (0%)		0/48 (0%)	0/50 (0%)	0/48 (0%)	
		0/75 (0%)	0/45 (0%)	0/47 (0%)		0/85 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/562 (0%)	Mean 0%	SD 0%	Total	1/612 (0.16%)	Mean 0.18%	SD 0.61%	
.....									
*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/41 (0%)	0/43 (0%)	0/44 (0%)		1/47 (2%)	0/47 (0%)	0/47 (0%)	
		0/45 (0%)	1/49 (2%)	0/41 (0%)		0/48 (0%)	0/49 (0%)	0/44 (0%)	
		0/44 (0%)	0/48 (0%)	0/40 (0%)		0/48 (0%)	0/50 (0%)	0/48 (0%)	
		0/75 (0%)	0/45 (0%)	0/47 (0%)		0/85 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	1/562 (0.18%)	Mean 0.17%	SD 0.59%	Total	1/612 (0.16%)	Mean 0.18%	SD 0.61%	
.....									
*Thyroid Gland: C-Cell:									
Adenoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (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%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)	0/50 (0%)		0/86 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/637 (0%)	Mean 0%	SD 0%	Total	1/631 (0.16%)	Mean 0.17%	SD 0.58%	
.....									
*Thyroid Gland: C-Cell:									
Carcinoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/89 (0%)	0/50 (0%)	0/50 (0%)		1/86 (1%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/637 (0%)	Mean 0%	SD 0%	Total	3/631 (0.48%)	Mean 0.43%	SD 0.81%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
Vehicle: ALL VEHICLES

Page: 48
 Report Date: 07/01/2019

		Male				Female			
*Thyroid Gland: C-Cell: Carcinoma or Adenoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)	0/50 (0%)		1/86 (1%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/637 (0%)	Mean 0%	SD 0%	Total	4/631 (0.63%)	Mean 0.6%	SD 0.91%	
.....									
*Thyroid Gland: Follicular Cell: Adenoma									
		0/49 (0%)	0/50 (0%)	1/50 (2%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/48 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)	0/50 (0%)		0/86 (0%)	1/49 (2%)	0/50 (0%)	
Overall Incidence	Total	2/637 (0.31%)	Mean 0.33%	SD 0.78%	Total	5/631 (0.79%)	Mean 0.84%	SD 1.04%	
.....									
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/49 (0%)	0/50 (0%)	1/50 (2%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/48 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)	0/50 (0%)		0/86 (0%)	1/49 (2%)	0/50 (0%)	
Overall Incidence	Total	2/637 (0.31%)	Mean 0.33%	SD 0.78%	Total	5/631 (0.79%)	Mean 0.84%	SD 1.04%	
.....									
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 49
 Report Date: 07/01/2019

		Male				Female			
#Tongue:									
Squamous Cell Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	2/640 (0.31%)	Mean 0.33%	SD 0.78%	
.....									
#Tooth:									
Odontoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	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%)
		0/90 (0%)	1/50 (2%)	2/50 (4%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/639 (0.47%)	Mean 0.5%	SD 1.24%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
*Urinary Bladder:									
Hemangiosarcoma									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	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%)	0/49 (0%)	0/50 (0%)
		0/87 (0%)	0/50 (0%)	0/50 (0%)		0/86 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/635 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/635 (0%)	Mean 0%	SD 0%	
.....									
*Urinary Bladder:									
Mast Cell Tumor									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
		1/87 (1%)	0/50 (0%)	0/50 (0%)		0/86 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/635 (0.16%)	Mean 0.1%	SD 0.33%	Total	0/635 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 50
 Report Date: 07/01/2019

	Male		Female			
#Uterus:						
Adenoma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence		Total 1/640 (0.16%)	Mean 0.17%	SD 0.58%		
.....						
#Uterus:						
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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence		Total 1/640 (0.16%)	Mean 0.09%	SD 0.32%		
.....						
#Uterus:						
Granular Cell Tumor Benign						
		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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence		Total 1/640 (0.16%)	Mean 0.17%	SD 0.58%		
.....						
#Uterus:						
Hemangioma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence		Total 1/640 (0.16%)	Mean 0.17%	SD 0.58%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 51
 Report Date: 07/01/2019

	Male		Female			
#Uterus:						
Hemangiosarcoma						
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	5/640 (0.78%)	Mean 0.83%	SD 1.03%		
.....						
#Uterus:						
Leiomyoma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/640 (0.31%)	Mean 0.26%	SD 0.63%		
.....						
#Uterus:						
Polyp Stromal						
		4/50 (8%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	8/640 (1.25%)	Mean 1.33%	SD 2.46%		
.....						
#Uterus:						
Sarcoma Stromal						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	
Overall Incidence	Total	2/640 (0.31%)	Mean 0.33%	SD 1.15%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Apr2019
 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: ALL ROUTES
 Vehicle: ALL VEHICLES

Page: 52
 Report Date: 07/01/2019

		Male				Female			
#Uterus:									
Sarcoma Stromal or Polyp Stromal									
						4/50 (8%)	0/50 (0%)	2/50 (4%)	
						1/50 (2%)	0/50 (0%)	0/50 (0%)	
						1/50 (2%)	0/50 (0%)	0/50 (0%)	
						0/90 (0%)	0/50 (0%)	2/50 (4%)	
Overall Incidence					Total	10/640 (1.56%)	Mean 1.67%	SD 2.53%	
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#Zymbal's Gland:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	
.....									
#Zymbal's Gland:									
Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/639 (0.16%)	Mean 0.17%	SD 0.58%	Total	0/640 (0%)	Mean 0%	SD 0%	

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