



National Toxicology Program
Department of Health and Human Services

NTP Historical Controls Report

All Routes and Vehicles

MICE

November 2014

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: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

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	056031106	05/15/06	729	50(5)	39(715)	54.3	Cobalt
Battelle Columbus Laboratory	059903104	03/17/05	726	50(1)	34(687)	54.6	Ginkgo biloba extract
Battelle Columbus Laboratory	052020304	07/10/07	730	50(1)	33(694)	52.6	Green tea extract
Battelle Columbus Laboratory	052000604	04/03/07	730	50(1)	26(663)	55.6	Indole-3-carbinol
Battelle Columbus Laboratory	052000706	08/24/04	730	50(1)	34(689)	56.4	Kava kava extract
Battelle Northwest	052051504	05/05/08	729	50(5)	39(709)	52.6	Metal working fluids (CIMSTAR 3800)
Battelle Columbus Laboratory	052010704	10/26/04	730	50(1)	34(665)	55.7	N,N-Dimethyl-p-toluidine
Southern Research Institute	052020904	02/25/08	729	50(1)	29(657)	55.3	Pentabromodiphenyl oxide (technical) (DE 71)
Battelle Columbus Laboratory	052000904	11/09/04	730	50(1)	24(645)	57.1	beta-Picoline
Battelle Columbus Laboratory	059903204	09/21/04	729	50(1)	37(698)	56.4	Pyrogallol
Battelle Columbus Laboratory	052032004	08/07/07	730	50(1)	33(687)	55.8	Tetrabromobisphenol A
Southern Research Institute	058813308	12/13/04	729	50(1)	30(665)	54.9	Trimethylolpropane triacrylate
Battelle Northwest	052030306	06/20/05	729	50(5)	29(680)	53.1	Vinylidene chloride
Battelle Columbus Laboratory	059601406	09/26/06	730	50(1)	25(660)	55.9	Water disinfection byproducts (Bromodichloroacetic acid)
Female							
Battelle Northwest	056031106	05/15/06	731	50(5)	36(686)	66.7	Cobalt
Battelle Columbus Laboratory	059903104	03/18/05	727	50(5)	31(628)	64.5	Ginkgo biloba extract
Battelle Columbus Laboratory	052020304	07/09/07	729	50(5)	34(665)	62.9	Green tea extract
Battelle Columbus Laboratory	052000604	04/02/07	729	50(5)	33(702)	66.6	Indole-3-carbinol
Battelle Columbus Laboratory	052000706	08/23/04	729	50(5)	38(695)	66.2	Kava kava extract
Battelle Northwest	052051504	05/05/08	731	50(5)	39(696)	59.2	Metal working fluids (CIMSTAR 3800)
Battelle Columbus Laboratory	052010704	10/25/04	729	50(5)	43(715)	66.6	N,N-Dimethyl-p-toluidine
Southern Research Institute	052020904	02/25/08	731	50(5)	33(679)	57.7	Pentabromodiphenyl oxide (technical) (DE 71)
Battelle Columbus Laboratory	052000904	11/08/04	729	50(5)	38(702)	67.4	beta-Picoline
Battelle Columbus Laboratory	059903204	09/20/04	729	50(1)	33(675)	69.3	Pyrogallol
Battelle Columbus Laboratory	052032004	08/06/07	729	50(5)	40(711)	66.5	Tetrabromobisphenol A
Southern Research Institute	058813308	12/13/04	732	50(1)	39(712)	66.6	Trimethylolpropane triacrylate
Battelle Northwest	052030306	06/20/05	731	50(5)	36(687)	66.0	Vinylidene chloride
Battelle Columbus Laboratory	059601406	09/25/06	729	50(5)	30(680)	63.5	Water disinfection byproducts (Bromodichloroacetic acid)

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#All Organs:									
Benign Tumors									
		35/50 (70%)	38/50 (76%)	43/50 (86%)		29/50 (58%)	25/50 (50%)	20/50 (40%)	
		33/50 (66%)	34/50 (68%)	39/50 (78%)		17/50 (34%)	26/50 (52%)	26/50 (52%)	
		36/50 (72%)	30/50 (60%)	36/50 (72%)		24/50 (48%)	24/50 (48%)	40/50 (80%)	
		42/50 (84%)	38/50 (76%)	37/50 (74%)		34/50 (68%)	22/50 (44%)	41/50 (82%)	
		43/50 (86%)	43/50 (86%)			32/50 (64%)	36/50 (72%)		
Overall Incidence	Total	527/700 (75.29%)	Mean 75.29%	SD 8.1%	Total	396/700 (56.57%)	Mean 56.57%	SD 14.66%	
.....									
#All Organs:									
Malignant Tumors									
		36/50 (72%)	35/50 (70%)	28/50 (56%)		31/50 (62%)	28/50 (56%)	18/50 (36%)	
		27/50 (54%)	32/50 (64%)	26/50 (52%)		19/50 (38%)	19/50 (38%)	30/50 (60%)	
		29/50 (58%)	27/50 (54%)	36/50 (72%)		21/50 (42%)	16/50 (32%)	29/50 (58%)	
		33/50 (66%)	21/50 (42%)	38/50 (76%)		34/50 (68%)	18/50 (36%)	38/50 (76%)	
		37/50 (74%)	30/50 (60%)			33/50 (66%)	31/50 (62%)		
Overall Incidence	Total	435/700 (62.14%)	Mean 62.14%	SD 10.03%	Total	365/700 (52.14%)	Mean 52.14%	SD 14.54%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		45/50 (90%)	44/50 (88%)	49/50 (98%)		40/50 (80%)	35/50 (70%)	29/50 (58%)	
		48/50 (96%)	47/50 (94%)	46/50 (92%)		30/50 (60%)	39/50 (78%)	41/50 (82%)	
		45/50 (90%)	40/50 (80%)	48/50 (96%)		35/50 (70%)	34/50 (68%)	43/50 (86%)	
		47/50 (94%)	47/50 (94%)	46/50 (92%)		42/50 (84%)	32/50 (64%)	47/50 (94%)	
		49/50 (98%)	48/50 (96%)			45/50 (90%)	45/50 (90%)		
Overall Incidence	Total	649/700 (92.71%)	Mean 92.71%	SD 4.75%	Total	537/700 (76.71%)	Mean 76.71%	SD 11.73%	
.....									
#All Organs:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	2/50 (4%)	1/50 (2%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	10/700 (1.43%)	Mean 1.43%	SD 1.65%	Total	5/700 (0.71%)	Mean 0.71%	SD 0.99%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male			Female			
#All Organs:								
Hemangiosarcoma								
		7/50 (14%)	9/50 (18%)	5/50 (10%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	
		4/50 (8%)	6/50 (12%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	
		8/50 (16%)	1/50 (2%)	6/50 (12%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	
		5/50 (10%)	1/50 (2%)	6/50 (12%)	6/50 (12%)	1/50 (2%)	2/50 (4%)	
		2/50 (4%)	5/50 (10%)		4/50 (8%)	6/50 (12%)		
Overall Incidence	Total	66/700 (9.43%)	Mean 9.43%	SD 5.23%	Total	33/700 (4.71%)	Mean 4.71%	SD 3.97%
.....								
#All Organs:								
Hemangiosarcoma or Hemangioma								
		7/50 (14%)	9/50 (18%)	7/50 (14%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	
		4/50 (8%)	8/50 (16%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	
		8/50 (16%)	1/50 (2%)	7/50 (14%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	
		6/50 (12%)	3/50 (6%)	6/50 (12%)	7/50 (14%)	2/50 (4%)	2/50 (4%)	
		3/50 (6%)	5/50 (10%)		4/50 (8%)	6/50 (12%)		
Overall Incidence	Total	76/700 (10.86%)	Mean 10.86%	SD 4.94%	Total	38/700 (5.43%)	Mean 5.43%	SD 3.72%
.....								
#All Organs:								
Histiocytic Sarcoma								
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	
		2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	
		2/50 (4%)	1/50 (2%)		2/50 (4%)	2/50 (4%)		
Overall Incidence	Total	9/700 (1.29%)	Mean 1.29%	SD 1.49%	Total	17/700 (2.43%)	Mean 2.43%	SD 1.79%
.....								
#All Organs:								
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type								
		4/50 (8%)	1/50 (2%)	4/50 (8%)	14/50 (28%)	11/50 (22%)	7/50 (14%)	
		3/50 (6%)	2/50 (4%)	3/50 (6%)	6/50 (12%)	6/50 (12%)	18/50 (36%)	
		4/50 (8%)	5/50 (10%)	0/50 (0%)	15/50 (30%)	7/50 (14%)	14/50 (28%)	
		2/50 (4%)	3/50 (6%)	2/50 (4%)	13/50 (26%)	9/50 (18%)	20/50 (40%)	
		2/50 (4%)	0/50 (0%)		14/50 (28%)	6/50 (12%)		
Overall Incidence	Total	35/700 (5%)	Mean 5%	SD 3.01%	Total	160/700 (22.86%)	Mean 22.86%	SD 9.37%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 Length of Study: CHRONIC

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

Page: 6
 Report Date: 11/11/2014

		Male				Female						
#All Organs:												
Mesothelioma: Benign												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total	0/700 (0%)		Mean 0%	SD 0%

#All Organs:												
Mesothelioma: Benign, Malignant, NOS												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total	0/700 (0%)		Mean 0%	SD 0%

#All Organs:												
Mesothelioma: Malignant												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total	0/700 (0%)		Mean 0%	SD 0%

#All Organs:												
Osteoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 Length of Study: CHRONIC

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

Page: 7
 Report Date: 11/11/2014

		Male				Female			
#All Organs:									
Osteosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (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%)	2/50 (4%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	2/700 (0.29%)	Mean 0.29%	SD 1.07%	

#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%)
		0/50 (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%)	2/50 (4%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	3/700 (0.43%)	Mean 0.43%	SD 1.16%	

*Adrenal Cortex:									
Adenoma									
		1/50 (2%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	9/49 (18%)		2/49 (4%)	0/50 (0%)	0/49 (0%)	
		3/50 (6%)	0/50 (0%)	2/49 (4%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		9/50 (18%)	1/50 (2%)	6/50 (12%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)			1/50 (2%)	0/49 (0%)		
Overall Incidence	Total	36/697 (5.16%)	Mean 5.18%	SD 6.32%	Total	4/695 (0.58%)	Mean 0.58%	SD 1.24%	

*Adrenal Medulla:									
Pheochromocytoma Benign									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		1/50 (2%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	1/48 (2%)		0/49 (0%)	0/50 (0%)	1/49 (2%)	
		0/50 (0%)	1/50 (2%)	0/49 (0%)		2/50 (4%)	0/49 (0%)	1/49 (2%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		2/50 (4%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	3/695 (0.43%)	Mean 0.43%	SD 0.86%	Total	9/695 (1.29%)	Mean 1.29%	SD 1.49%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 Length of Study: CHRONIC

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

Page: 8
 Report Date: 11/11/2014

		Male				Female			
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	0/48 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/49 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	1/695 (0.14%)	Mean 0.14%	SD 0.53%	Total	3/695 (0.43%)	Mean 0.43%	SD 1.16%	

*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		1/50 (2%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	1/48 (2%)		0/49 (0%)	0/50 (0%)	1/49 (2%)	
		0/50 (0%)	1/50 (2%)	0/49 (0%)		2/50 (4%)	0/49 (0%)	1/49 (2%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		2/50 (4%)	1/50 (2%)	2/50 (4%)	
		2/50 (4%)	0/50 (0%)			2/50 (4%)	0/50 (0%)		
Overall Incidence	Total	4/695 (0.58%)	Mean 0.58%	SD 1.23%	Total	12/695 (1.73%)	Mean 1.72%	SD 1.73%	

#Blood Vessel:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

*Bone Marrow:									
Hemangioma									
		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/698 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 Length of Study: CHRONIC

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

Page: 9
 Report Date: 11/11/2014

		Male					Female									
*Bone Marrow:																
Hemangiosarcoma																
		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		1/50	(2%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/49	(0%)	1/49	(2%)			
		0/50	(0%)	0/50	(0%)	1/50	(2%)	3/50	(6%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	9/700 (1.29%)			Mean	1.29%	SD	1.49%	Total	5/698 (0.72%)			Mean	0.72%	SD	1.69%
*Bone Marrow:																
Mast Cell Tumor Malignant																
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	1/698 (0.14%)			Mean	0.14%	SD	0.53%
*Bone Marrow:																
Sarcoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	1/698 (0.14%)			Mean	0.14%	SD	0.53%
#Bone:																
Fibroma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	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%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female					
#Bone:											
Hemangiosarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	3/700 (0.43%)	Mean	0.43%

#Bone:											
Osteoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	1/700 (0.14%)	Mean	0.14%

#Bone:											
Osteosarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		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%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	2/700 (0.29%)	Mean	0.29%

#Bone:											
Osteosarcoma or Osteoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		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%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	3/700 (0.43%)	Mean	0.43%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female								
#Bone:														
Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	1/700 (0.14%)		Mean	0.14%	SD	0.53%
.....														
*Brain:														
Granular Cell Tumor Benign														
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/700 (0.14%)		Mean	0.14%	SD	0.53%	Total	0/699 (0%)		Mean	0%	SD	0%
.....														
*Brain:														
Meningioma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/49	(0%)			
Overall Incidence	Total	1/700 (0.14%)		Mean	0.14%	SD	0.53%	Total	0/699 (0%)		Mean	0%	SD	0%
.....														
*Brain:														
Meningioma: Benign, Malignant, NOS														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/49	(0%)			
Overall Incidence	Total	1/700 (0.14%)		Mean	0.14%	SD	0.53%	Total	0/699 (0%)		Mean	0%	SD	0%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Brain:									
Oligodendroglioma Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/699 (0%)	Mean 0%	SD 0%	

*Brain:									
Oligodendroglioma, Glioma, or Astrocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/699 (0%)	Mean 0%	SD 0%	

*Clitoral/Preputial Gland:									
Hemangioma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/43 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/49 (0%)	0/44 (0%)	0/49 (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%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/45 (0%)	0/47 (0%)	0/50 (0%)	0/49 (0%)
Overall Incidence	Total	1/699 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/673 (0%)	Mean 0%	SD 0%	

*Clitoral/Preputial Gland:									
Hemangiosarcoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/43 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/49 (0%)	0/44 (0%)	0/49 (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%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/45 (0%)	0/47 (0%)	0/50 (0%)	0/49 (0%)
Overall Incidence	Total	1/699 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/673 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Coagulating Gland:									
Granular Cell Tumor									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	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%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	
#Coagulating Gland:									
Sarcoma									
		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	
#Eye:									
Melanoma Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	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%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	
#Harderian Gland:									
Adenoma									
		6/50 (12%)	4/50 (8%)	7/50 (14%)		3/50 (6%)	5/50 (10%)	2/50 (4%)	
		6/50 (12%)	5/50 (10%)	7/50 (14%)		3/50 (6%)	5/50 (10%)	2/50 (4%)	
		11/50 (22%)	5/50 (10%)	5/50 (10%)		1/50 (2%)	9/50 (18%)	2/50 (4%)	
		6/50 (12%)	7/50 (14%)	8/50 (16%)		1/50 (2%)	2/50 (4%)	5/50 (10%)	
		7/50 (14%)	6/50 (12%)			1/50 (2%)	5/50 (10%)		
Overall Incidence	Total	90/700 (12.86%)	Mean 12.86%	SD 3.39%	Total	46/700 (6.57%)	Mean 6.57%	SD 4.54%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Harderian Gland:									
Carcinoma									
		2/50 (4%)	3/50 (6%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)	5/50 (10%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	2/50 (4%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	
		2/50 (4%)	1/50 (2%)	3/50 (6%)		2/50 (4%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	0/50 (0%)			3/50 (6%)	0/50 (0%)		
Overall Incidence	Total	21/700 (3%)	Mean 3%	SD 2.91%	Total	14/700 (2%)	Mean 2%	SD 2.08%	
<hr/>									
#Harderian Gland:									
Carcinoma or Adenoma									
		8/50 (16%)	7/50 (14%)	8/50 (16%)		3/50 (6%)	6/50 (12%)	4/50 (8%)	
		7/50 (14%)	5/50 (10%)	12/50 (24%)		3/50 (6%)	5/50 (10%)	2/50 (4%)	
		11/50 (22%)	6/50 (12%)	7/50 (14%)		1/50 (2%)	10/50 (20%)	4/50 (8%)	
		8/50 (16%)	8/50 (16%)	11/50 (22%)		3/50 (6%)	3/50 (6%)	7/50 (14%)	
		7/50 (14%)	6/50 (12%)			4/50 (8%)	5/50 (10%)		
Overall Incidence	Total	111/700 (15.86%)	Mean 15.86%	SD 4.11%	Total	60/700 (8.57%)	Mean 8.57%	SD 4.54%	
<hr/>									
*Heart:									
Hemangiosarcoma									
		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%)	
		1/50 (2%)	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%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	4/700 (0.57%)	Mean 0.57%	SD 0.94%	Total	0/700 (0%)	Mean 0%	SD 0%	
<hr/>									
#Intestine Large: Cecum:									
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%)	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%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female						
#Intestine Large: Cecum:												
Carcinoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	1/50	(2%)			1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%
#Intestine Large: Cecum:												
Carcinoma or Adenoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		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%)	
		1/50	(2%)	1/50	(2%)			1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	3/700 (0.43%)		Mean 0.43%		SD 0.85%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%
#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%)	0/50	(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%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%
#Intestine Small: Duodenum:												
Adenoma												
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/50	(4%)	1/50	(2%)	1/50	(2%)	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%)	1/50	(2%)	
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	6/700 (0.86%)		Mean 0.86%		SD 1.29%		Total 3/700 (0.43%)		Mean 0.43%		SD 0.85%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female						
#Intestine Small: Duodenum:												
Carcinoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	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%)	1/50	(2%)			0/50	(0%)			
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%
#Intestine Small: Ileum:												
Adenoma												
		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%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%
#Intestine Small: Ileum:												
Carcinoma												
		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%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total	2/700 (0.29%)		Mean 0.29%	SD 0.73%
#Intestine Small: Jejunum:												
Adenoma												
		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%)	1/50	(2%)	
		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%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	3/700 (0.43%)		Mean 0.43%		SD 0.85%		Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female									
#Intestine Small: Jejunum:																
Carcinoma																
		0/50	(0%)	1/50	(2%)	2/50	(4%)	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%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	1/50	(2%)	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%)			
Overall Incidence	Total	11/700 (1.57%)			Mean	1.57%	SD	1.6%	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%
#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%)	0/50	(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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	2/700 (0.29%)			Mean	0.29%	SD	0.73%
#Intestine Small: Site Unspecified:																
Adenoma																
		2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		3/50	(6%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	2/50	(4%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			
		1/50	(2%)	1/50	(2%)			1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	11/700 (1.57%)			Mean	1.57%	SD	1.95%	Total	5/700 (0.71%)			Mean	0.71%	SD	1.27%
#Intestine Small: Site Unspecified:																
Carcinoma																
		0/50	(0%)	1/50	(2%)	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%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	1/50	(2%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)			
		0/50	(0%)	2/50	(4%)			1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	12/700 (1.71%)			Mean	1.71%	SD	1.73%	Total	4/700 (0.57%)			Mean	0.57%	SD	0.94%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		2/50 (4%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		3/50 (6%)	3/50 (6%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)		
		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)		
		1/50 (2%)	3/50 (6%)		2/50 (4%)	0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	23/700 (3.29%)	Mean 3.29%	SD 2.02%	Total	9/700 (1.29%)	Mean 1.29%	SD 1.49%	
<hr/>									
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		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%)	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%)		
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	
<hr/>									
*Islets, Pancreatic:									
Adenoma									
		0/49 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)		
		1/50 (2%)	1/50 (2%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	0/48 (0%)		
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/49 (4%)		
		2/50 (4%)	0/50 (0%)		1/50 (2%)	0/49 (0%)			
Overall Incidence	Total	11/698 (1.58%)	Mean 1.57%	SD 1.4%	Total	8/696 (1.15%)	Mean 1.15%	SD 1.31%	
<hr/>									
*Islets, Pancreatic:									
Carcinoma									
		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%)		
		1/50 (2%)	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%)	0/49 (0%)		
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	3/698 (0.43%)	Mean 0.43%	SD 0.85%	Total	0/696 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female										
*Islets, Pancreatic:																	
 Carcinoma or Adenoma																	
		0/49	(0%)	1/50	(2%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	1/50	(2%)				
		1/50	(2%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	1/50	(2%)	1/50	(2%)				
		2/50	(4%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	1/50	(2%)	0/48	(0%)				
		2/50	(4%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	2/49	(4%)				
		2/50	(4%)	0/50	(0%)			1/50	(2%)	0/49	(0%)						
Overall Incidence	Total	14/698 (2.01%)					Mean	2%	SD	1.75%	Total	8/696 (1.15%)		Mean	1.15%	SD	1.31%
*Kidney: Pelvis and Transitional Epithelium:																	
 Carcinoma																	
		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%)	0/50	(0%)	0/50	(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%)	0/49	(0%)				
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/698 (0%)					Mean	0%	SD	0%	Total	1/698 (0.14%)		Mean	0.14%	SD	0.53%
*Kidney: Pelvis and Transitional Epithelium:																	
 Carcinoma or Adenoma																	
		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%)	0/50	(0%)	0/50	(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%)	0/49	(0%)				
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/698 (0%)					Mean	0%	SD	0%	Total	1/698 (0.14%)		Mean	0.14%	SD	0.53%
*Kidney: Renal Tubule:																	
 Adenoma																	
		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%)	0/50	(0%)	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%)	2/48	(4%)	0/50	(0%)	0/50	(0%)	0/49	(0%)				
		0/50	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	7/698 (1%)					Mean	1.01%	SD	1.54%	Total	0/698 (0%)		Mean	0%	SD	0%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Kidney: Renal Tubule: Carcinoma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (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%)	0/50 (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%)		
Overall Incidence	Total	2/698 (0.29%)		Mean 0.29%	SD 1.07%	Total	0/698 (0%)		Mean 0% SD 0%

*Kidney: Renal Tubule: Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	3/50 (6%)		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	2/48 (4%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	2/50 (4%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	9/698 (1.29%)		Mean 1.3%	SD 2.03%	Total	0/698 (0%)		Mean 0% SD 0%

*Kidney: Renal Tubule: Hemangioma									
		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%)	0/50 (0%)	0/50 (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%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/698 (0.14%)		Mean 0.14%	SD 0.53%	Total	0/698 (0%)		Mean 0% SD 0%

*Kidney: Renal Tubule: Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)	0/48 (0%)		1/50 (2%)	0/50 (0%)	0/49 (0%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/698 (0.14%)		Mean 0.14%	SD 0.53%	Total	1/698 (0.14%)		Mean 0.14% SD 0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 Length of Study: CHRONIC

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

Page: 21
 Report Date: 11/11/2014

		Male				Female			
*Liver:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	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%)	0/49 (0%)	
		0/50 (0%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	4/700 (0.57%)	Mean 0.57%	SD 1.45%	Total	1/698 (0.14%)	Mean 0.14%	SD 0.53%	

*Liver:									
Hemangiosarcoma									
		4/50 (8%)	9/50 (18%)	3/50 (6%)		2/50 (4%)	0/50 (0%)	1/50 (2%)	
		4/50 (8%)	5/50 (10%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		6/50 (12%)	0/50 (0%)	5/50 (10%)		0/50 (0%)	0/50 (0%)	2/49 (4%)	
		3/50 (6%)	0/50 (0%)	2/50 (4%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		2/50 (4%)	1/50 (2%)			1/50 (2%)	2/49 (4%)		
Overall Incidence	Total	44/700 (6.29%)	Mean 6.29%	SD 5.2%	Total	10/698 (1.43%)	Mean 1.44%	SD 1.67%	

*Liver:									
Hepatoblastoma									
		2/50 (4%)	3/50 (6%)	2/50 (4%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		3/50 (6%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		1/50 (2%)	1/50 (2%)	6/50 (12%)		0/50 (0%)	0/50 (0%)	1/49 (2%)	
		4/50 (8%)	2/50 (4%)	5/50 (10%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	4/50 (8%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	34/700 (4.86%)	Mean 4.86%	SD 3.66%	Total	4/698 (0.57%)	Mean 0.57%	SD 0.94%	

*Liver:									
Hepatocellular Adenoma									
		28/50 (56%)	31/50 (62%)	35/50 (70%)		19/50 (38%)	17/50 (34%)	12/50 (24%)	
		26/50 (52%)	27/50 (54%)	24/50 (48%)		7/50 (14%)	8/50 (16%)	14/50 (28%)	
		29/50 (58%)	23/50 (46%)	33/50 (66%)		17/50 (34%)	5/50 (10%)	38/49 (78%)	
		39/50 (78%)	32/50 (64%)	34/50 (68%)		30/50 (60%)	13/50 (26%)	34/50 (68%)	
		37/50 (74%)	39/50 (78%)			25/50 (50%)	33/49 (67%)		
Overall Incidence	Total	437/700 (62.43%)	Mean 62.43%	SD 10.53%	Total	272/698 (38.97%)	Mean 39.06%	SD 21.93%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Liver:									
Hepatocellular Carcinoma									
		25/50 (50%)	22/50 (44%)	15/50 (30%)	10/50 (20%)	9/50 (18%)	5/50 (10%)		
		12/50 (24%)	20/50 (40%)	11/50 (22%)	6/50 (12%)	3/50 (6%)	10/50 (20%)		
		22/50 (44%)	18/50 (36%)	26/50 (52%)	6/50 (12%)	4/50 (8%)	11/49 (22%)		
		20/50 (40%)	11/50 (22%)	22/50 (44%)	17/50 (34%)	2/50 (4%)	12/50 (24%)		
		26/50 (52%)	12/50 (24%)		8/50 (16%)	9/49 (18%)			
Overall Incidence	Total	262/700 (37.43%)	Mean 37.43%	SD 11.16%	Total	112/698 (16.05%)	Mean 16.06%	SD 8.07%	

*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		27/50 (54%)	24/50 (48%)	17/50 (34%)	10/50 (20%)	10/50 (20%)	5/50 (10%)		
		15/50 (30%)	20/50 (40%)	11/50 (22%)	6/50 (12%)	3/50 (6%)	10/50 (20%)		
		22/50 (44%)	18/50 (36%)	26/50 (52%)	6/50 (12%)	4/50 (8%)	12/49 (24%)		
		21/50 (42%)	12/50 (24%)	26/50 (52%)	18/50 (36%)	2/50 (4%)	12/50 (24%)		
		27/50 (54%)	15/50 (30%)		8/50 (16%)	9/49 (18%)			
Overall Incidence	Total	281/700 (40.14%)	Mean 40.14%	SD 11.08%	Total	115/698 (16.48%)	Mean 16.49%	SD 8.6%	

*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		38/50 (76%)	39/50 (78%)	40/50 (80%)	25/50 (50%)	20/50 (40%)	14/50 (28%)		
		35/50 (70%)	38/50 (76%)	32/50 (64%)	12/50 (24%)	10/50 (20%)	20/50 (40%)		
		38/50 (76%)	31/50 (62%)	45/50 (90%)	20/50 (40%)	8/50 (16%)	40/49 (82%)		
		43/50 (86%)	39/50 (78%)	37/50 (74%)	35/50 (70%)	15/50 (30%)	37/50 (74%)		
		44/50 (88%)	42/50 (84%)		28/50 (56%)	36/49 (73%)			
Overall Incidence	Total	541/700 (77.29%)	Mean 77.29%	SD 8.25%	Total	320/698 (45.85%)	Mean 45.94%	SD 21.92%	

*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		39/50 (78%)	39/50 (78%)	40/50 (80%)	25/50 (50%)	20/50 (40%)	14/50 (28%)		
		36/50 (72%)	38/50 (76%)	32/50 (64%)	12/50 (24%)	10/50 (20%)	20/50 (40%)		
		38/50 (76%)	31/50 (62%)	45/50 (90%)	20/50 (40%)	8/50 (16%)	40/49 (82%)		
		43/50 (86%)	39/50 (78%)	38/50 (76%)	35/50 (70%)	15/50 (30%)	37/50 (74%)		
		45/50 (90%)	42/50 (84%)		28/50 (56%)	36/49 (73%)			
Overall Incidence	Total	545/700 (77.86%)	Mean 77.86%	SD 8.28%	Total	320/698 (45.85%)	Mean 45.94%	SD 21.92%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Liver:									
Hepatocolangiocarcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	4/50 (8%)	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%)	0/49 (0%)	
		0/50 (0%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	9/700 (1.29%)		Mean 1.29%	SD 2.43%	Total	0/698 (0%)		Mean 0%
									SD 0%

*Liver:									
Ito Cell Tumor Benign									
		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%)	0/50 (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%)	0/49 (0%)		
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total	0/698 (0%)		Mean 0%
									SD 0%

*Liver:									
Mast Cell Tumor Malignant									
		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%)	0/50 (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%)	0/49 (0%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%	SD 0%	Total	1/698 (0.14%)		Mean 0.14%
									SD 0.53%

*Liver:									
Sarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	
		0/50 (0%)	0/50 (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%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%	SD 0%	Total	1/698 (0.14%)		Mean 0.14%
									SD 0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Lung:									
Alveolar/Bronchiolar Adenoma									
		7/50 (14%)	8/50 (16%)	12/50 (24%)		3/49 (6%)	0/50 (0%)	5/50 (10%)	
		4/50 (8%)	9/50 (18%)	5/50 (10%)		1/50 (2%)	2/50 (4%)	1/50 (2%)	
		11/50 (22%)	5/50 (10%)	6/50 (12%)		2/50 (4%)	1/50 (2%)	5/50 (10%)	
		12/50 (24%)	6/50 (12%)	1/50 (2%)		2/50 (4%)	5/50 (10%)	3/50 (6%)	
		7/50 (14%)	13/50 (26%)			3/50 (6%)	3/50 (6%)		
Overall Incidence	Total	106/700 (15.14%)	Mean 15.14%	SD 6.96%	Total	36/699 (5.15%)	Mean 5.15%	SD 3.21%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		11/50 (22%)	11/50 (22%)	2/50 (4%)		5/49 (10%)	1/50 (2%)	1/50 (2%)	
		4/50 (8%)	2/50 (4%)	8/50 (16%)		2/50 (4%)	2/50 (4%)	4/50 (8%)	
		2/50 (4%)	5/50 (10%)	9/50 (18%)		0/50 (0%)	0/50 (0%)	7/50 (14%)	
		4/50 (8%)	4/50 (8%)	12/50 (24%)		2/50 (4%)	1/50 (2%)	2/50 (4%)	
		9/50 (18%)	7/50 (14%)			1/50 (2%)	2/50 (4%)		
Overall Incidence	Total	90/700 (12.86%)	Mean 12.86%	SD 7.18%	Total	30/699 (4.29%)	Mean 4.3%	SD 3.93%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma									
		16/50 (32%)	17/50 (34%)	14/50 (28%)		8/49 (16%)	1/50 (2%)	6/50 (12%)	
		8/50 (16%)	11/50 (22%)	13/50 (26%)		3/50 (6%)	4/50 (8%)	4/50 (8%)	
		13/50 (26%)	10/50 (20%)	14/50 (28%)		2/50 (4%)	1/50 (2%)	11/50 (22%)	
		15/50 (30%)	10/50 (20%)	13/50 (26%)		4/50 (8%)	6/50 (12%)	5/50 (10%)	
		13/50 (26%)	19/50 (38%)			4/50 (8%)	5/50 (10%)		
Overall Incidence	Total	186/700 (26.57%)	Mean 26.57%	SD 5.89%	Total	64/699 (9.16%)	Mean 9.17%	SD 5.39%	
.....									
*Lung:									
Hemangiosarcoma									
		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%)	
		1/50 (2%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	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%)		
Overall Incidence	Total	5/700 (0.71%)	Mean 0.71%	SD 1.27%	Total	0/699 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female						
#Lymph Node, Mandibular:													
Mast Cell Tumor Malignant													
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%	
#Lymph Node, Mediastinal:													
Mast Cell Tumor Malignant													
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%	
#Lymph Node, Mesenteric:													
Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/700 (0.43%)		Mean 0.43%		SD 0.85%		Total 0/700 (0%)		Mean 0%		SD 0%	
#Mammary Gland:													
Carcinoma													
		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%)	2/50	(4%)
		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%)	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%)
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total 8/700 (1.14%)		Mean 1.14%		SD 1.29%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Mammary Gland:									
Carcinoma or Adenoma									
		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%)	2/50 (4%)	
		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%)		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%)	
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	8/700 (1.14%)	Mean 1.14%	SD 1.29%	

#Mammary Gland:									
Fibroma, Fibroadenoma, Carcinoma, or Adenoma									
		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%)	2/50 (4%)	
		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%)		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%)	
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	8/700 (1.14%)	Mean 1.14%	SD 1.29%	

#Mesentery:									
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%)	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%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	

#Mesentery:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female						
#Mesentery:												
Lipoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total	0/700 (0%)		Mean 0%	SD 0%

#Mesentery:												
Sarcoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total	0/700 (0%)		Mean 0%	SD 0%

*Nose:												
Adenoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/48	(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%)	0/49	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/699 (0%)		Mean 0%		SD 0%		Total	1/697 (0.14%)		Mean 0.15%	SD 0.56%

*Nose:												
Hemangiosarcoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/48	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(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%)	
Overall Incidence	Total	1/699 (0.14%)		Mean 0.14%		SD 0.53%		Total	0/697 (0%)		Mean 0%	SD 0%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#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%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	
#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%)	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%)	0/50 (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%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	3/700 (0.43%)	Mean 0.43%	SD 1.16%	
#Oral Mucosa: Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

	Male		Female			
*Ovary:						
Choriocarcinoma						
	0/48	(0%)	1/50	(2%)	0/50	(0%)
	0/50	(0%)	0/49	(0%)	0/50	(0%)
	0/50	(0%)	0/48	(0%)	0/49	(0%)
	0/50	(0%)	0/50	(0%)	0/47	(0%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 1/691 (0.14%)		Mean 0.14%		SD 0.53%	
.....						
*Ovary:						
Cystadenocarcinoma						
	0/48	(0%)	0/50	(0%)	1/50	(2%)
	0/50	(0%)	0/49	(0%)	0/50	(0%)
	0/50	(0%)	0/48	(0%)	0/49	(0%)
	0/50	(0%)	0/50	(0%)	1/47	(2%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 2/691 (0.29%)		Mean 0.29%		SD 0.75%	
.....						
*Ovary:						
Cystadenoma						
	1/48	(2%)	2/50	(4%)	3/50	(6%)
	1/50	(2%)	5/49	(10%)	2/50	(4%)
	1/50	(2%)	2/48	(4%)	3/49	(6%)
	2/50	(4%)	2/50	(4%)	1/47	(2%)
	1/50	(2%)	1/50	(2%)		
Overall Incidence	Total 27/691 (3.91%)		Mean 3.91%		SD 2.32%	
.....						
*Ovary:						
Granulosa Cell Tumor Benign						
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	0/49	(0%)	1/50	(2%)
	0/50	(0%)	1/48	(2%)	0/49	(0%)
	1/50	(2%)	0/50	(0%)	0/47	(0%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 3/691 (0.43%)		Mean 0.43%		SD 0.86%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

	Male		Female			
*Ovary:						
Granulosa Cell Tumor: Benign, Malignant, NOS						
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	0/49	(0%)	1/50	(2%)
	0/50	(0%)	1/48	(2%)	0/49	(0%)
	1/50	(2%)	0/50	(0%)	0/47	(0%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 3/691 (0.43%)		Mean 0.43%		SD 0.86%	
.....						
*Ovary:						
Hemangioma						
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	0/49	(0%)	0/50	(0%)
	0/50	(0%)	0/48	(0%)	0/49	(0%)
	1/50	(2%)	0/50	(0%)	0/47	(0%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 1/691 (0.14%)		Mean 0.14%		SD 0.53%	
.....						
*Ovary:						
Hemangiosarcoma						
	0/48	(0%)	1/50	(2%)	0/50	(0%)
	0/50	(0%)	0/49	(0%)	0/50	(0%)
	0/50	(0%)	0/48	(0%)	0/49	(0%)
	1/50	(2%)	0/50	(0%)	0/47	(0%)
	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total 2/691 (0.29%)		Mean 0.29%		SD 0.73%	
.....						
*Ovary:						
Luteoma						
	0/48	(0%)	0/50	(0%)	0/50	(0%)
	0/50	(0%)	1/49	(2%)	1/50	(2%)
	0/50	(0%)	0/48	(0%)	0/49	(0%)
	0/50	(0%)	0/50	(0%)	0/47	(0%)
	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total 3/691 (0.43%)		Mean 0.43%		SD 0.86%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

					Male						Female			
*Ovary:														
Sarcoma														
						0/48	(0%)		0/50	(0%)	1/50	(2%)		
						0/50	(0%)		0/49	(0%)	0/50	(0%)		
						0/50	(0%)		0/48	(0%)	0/49	(0%)		
						0/50	(0%)		0/50	(0%)	0/47	(0%)		
						0/50	(0%)		0/50	(0%)				
Overall Incidence					Total	1/691 (0.14%)			Mean 0.14%		SD 0.53%			
.....														
*Ovary:														
Tubulostromal Adenoma														
						0/48	(0%)		0/50	(0%)	0/50	(0%)		
						1/50	(2%)		0/49	(0%)	0/50	(0%)		
						1/50	(2%)		0/48	(0%)	0/49	(0%)		
						0/50	(0%)		0/50	(0%)	0/47	(0%)		
						0/50	(0%)		0/50	(0%)				
Overall Incidence					Total	2/691 (0.29%)			Mean 0.29%		SD 0.73%			
.....														
*Ovary:														
Yolk Sac Carcinoma														
						1/48	(2%)		0/50	(0%)	0/50	(0%)		
						0/50	(0%)		0/49	(0%)	0/50	(0%)		
						0/50	(0%)		0/48	(0%)	0/49	(0%)		
						0/50	(0%)		0/50	(0%)	0/47	(0%)		
						0/50	(0%)		0/50	(0%)				
Overall Incidence					Total	1/691 (0.14%)			Mean 0.15%		SD 0.56%			
.....														
*Pancreas:														
Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/49	(0%)			
Overall Incidence	Total	1/699 (0.14%)		Mean	0.14%	SD	0.53%	Total	1/695 (0.14%)		Mean	0.14%	SD	0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Pancreas:									
Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/48 (0%)	0/48 (0%)
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		0/50 (0%)	0/50 (0%)			1/50 (2%)	0/49 (0%)		
Overall Incidence	Total	1/699 (0.14%)		Mean 0.14%	SD 0.53%	Total	1/695 (0.14%)		Mean 0.14% SD 0.53%
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		0/47 (0%)	0/49 (0%)	1/49 (2%)		3/47 (6%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		3/49 (6%)	2/50 (4%)	5/50 (10%)	5/50 (10%)
		0/50 (0%)	0/47 (0%)	0/47 (0%)		0/48 (0%)	5/50 (10%)	4/50 (8%)	4/50 (8%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		4/50 (8%)	1/50 (2%)	7/49 (14%)	7/49 (14%)
		0/49 (0%)	0/50 (0%)			8/50 (16%)	2/49 (4%)		
Overall Incidence	Total	1/687 (0.15%)		Mean 0.15%	SD 0.55%	Total	48/692 (6.94%)		Mean 6.92% SD 4.78%
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma or Adenoma									
		0/47 (0%)	0/49 (0%)	1/49 (2%)		3/47 (6%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/49 (0%)	0/50 (0%)		3/49 (6%)	2/50 (4%)	5/50 (10%)	5/50 (10%)
		0/50 (0%)	0/47 (0%)	0/47 (0%)		0/48 (0%)	5/50 (10%)	4/50 (8%)	4/50 (8%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		4/50 (8%)	1/50 (2%)	7/49 (14%)	7/49 (14%)
		0/49 (0%)	0/50 (0%)			8/50 (16%)	2/49 (4%)		
Overall Incidence	Total	1/687 (0.15%)		Mean 0.15%	SD 0.55%	Total	48/692 (6.94%)		Mean 6.92% SD 4.78%
.....									
*Pituitary Gland: Pars Intermedia:									
Adenoma									
		0/47 (0%)	0/49 (0%)	0/49 (0%)		0/47 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/49 (2%)	0/50 (0%)		1/49 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/47 (0%)	0/47 (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%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
		1/49 (2%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	2/687 (0.29%)		Mean 0.29%	SD 0.74%	Total	3/692 (0.43%)		Mean 0.43% SD 0.86%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Pituitary Gland: Pars Intermedia:									
 Carcinoma or Adenoma									
		0/47 (0%)	0/49 (0%)	0/49 (0%)		0/47 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	1/49 (2%)	0/50 (0%)		1/49 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/47 (0%)	0/47 (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%)	0/49 (0%)	
		1/49 (2%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	2/687 (0.29%)		Mean 0.29%	SD 0.74%	Total 3/692 (0.43%)		Mean 0.43%	SD 0.86%

*Salivary Glands:									
 Adenoma									
		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%)	0/49 (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%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/48 (0%)		
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total 1/697 (0.14%)		Mean 0.14%	SD 0.53%

*Salivary Glands:									
 Carcinoma or Adenoma									
		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%)	0/49 (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%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/48 (0%)		
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total 1/697 (0.14%)		Mean 0.14%	SD 0.53%

*Salivary Glands:									
 Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/48 (0%)		
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total 0/697 (0%)		Mean 0%	SD 0%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female									
*Salivary Glands:																
Myxoma																
		0/50	(0%)	0/50	(0%)	0/50	(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%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	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%)	0/48	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	1/697 (0.14%)			Mean	0.14%	SD	0.53%
#Skeletal Muscle:																
Hemangiosarcoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	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%)			
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	2/700 (0.29%)			Mean	0.29%	SD	0.73%	Total	3/700 (0.43%)			Mean	0.43%	SD	0.85%
#Skeletal Muscle:																
Rhabdomyosarcoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%	Total	6/700 (0.86%)			Mean	0.86%	SD	1.88%
#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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%	Total	6/700 (0.86%)			Mean	0.86%	SD	1.88%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female							
#Skeletal Muscle:														
Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	3/700 (0.43%)		Mean	0.43%	SD	1.16%
#Skin:														
Basal Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	2/700 (0.29%)		Mean	0.29%	SD	0.73%
#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%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	2/700 (0.29%)		Mean	0.29%	SD	0.73%
#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%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/700 (0%)		Mean	0%	SD	0%	Total	2/700 (0.29%)		Mean	0.29%	SD	0.73%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		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%)	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%)	1/50 (2%)	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%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	3/700 (0.43%)		Mean 0.43%	SD 0.85%	5/700 (0.71%)		Mean 0.71%	SD 0.99%

#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
		1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	4/50 (8%)	4/50 (8%)
		1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
Overall Incidence	Total	6/700 (0.86%)		Mean 0.86%	SD 1.03%	23/700 (3.29%)		Mean 3.29%	SD 2.67%

#Skin:									
Fibrosarcoma									
		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%)	0/50 (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%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	9/700 (1.29%)		Mean 1.29%	SD 1.86%

#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
		1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	4/50 (8%)	4/50 (8%)
		1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
Overall Incidence	Total	6/700 (0.86%)		Mean 0.86%	SD 1.03%	23/700 (3.29%)		Mean 3.29%	SD 2.67%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Skin:									
Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	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%)	0/50 (0%)
		1/50 (2%)	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%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	4/700 (0.57%)		Mean 0.57%	SD 0.94%	Total 3/700 (0.43%)		Mean 0.43%	SD 1.6%

#Skin:									
Granular Cell Tumor Benign									
		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%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total 0/700 (0%)		Mean 0%	SD 0%

#Skin:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (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%)
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%	SD 0.53%	Total 1/700 (0.14%)		Mean 0.14%	SD 0.53%

#Skin:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
		1/50 (2%)	0/50 (0%)	2/50 (4%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
		0/50 (0%)	1/50 (2%)			0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
Overall Incidence	Total	6/700 (0.86%)		Mean 0.86%	SD 1.29%	Total 9/700 (1.29%)		Mean 1.29%	SD 1.68%

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

		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%)	0/50	(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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%

#Skin:												
Lipoma												
		0/50	(0%)	0/50	(0%)	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%)	2/50	(4%)	0/50	(0%)	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%)	
Overall Incidence	Total	4/700 (0.57%)		Mean 0.57%		SD 1.22%		Total 0/700 (0%)		Mean 0%		SD 0%

#Skin:												
Liposarcoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	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%)	
Overall Incidence	Total	1/700 (0.14%)		Mean 0.14%		SD 0.53%		Total 0/700 (0%)		Mean 0%		SD 0%

#Skin:												
Mast Cell Tumor Benign												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total 1/700 (0.14%)		Mean 0.14%		SD 0.53%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Skin:									
Mast Cell Tumor Malignant									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	

#Skin:									
Melanoma Benign									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (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%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

#Skin:									
Melanoma Malignant									
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

#Skin:									
Neural Crest Tumor									
		1/50 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Skin:									
Neurofibroma or Schwannoma benign									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	
<hr/>									
#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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	4/700 (0.57%)	Mean 0.57%	SD 1.65%	
<hr/>									
#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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	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%)	1/50 (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%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	5/700 (0.71%)	Mean 0.71%	SD 1.68%	
<hr/>									
#Skin:									
Osteosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	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%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female									
#Skin:																
Sarcoma																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)	3/50	(6%)	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%)	0/50	(0%)	2/50	(4%)			
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)			1/50	(2%)	1/50	(2%)					
Overall Incidence	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%	Total	11/700 (1.57%)			Mean	1.57%	SD	1.95%

#Skin:																
Schwannoma Benign																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	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%)	0/50	(0%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%

#Skin:																
Schwannoma Malignant																
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	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%)			0/50	(0%)	3/50	(6%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	4/700 (0.57%)			Mean	0.57%	SD	1.65%

#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%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	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%)			0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/700 (0%)			Mean	0%	SD	0%	Total	2/700 (0.29%)			Mean	0.29%	SD	0.73%

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		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%)	0/50 (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%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	

#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%)	0/50 (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%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	

#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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	3/700 (0.43%)	Mean 0.43%	SD 0.85%	Total	3/700 (0.43%)	Mean 0.43%	SD 0.85%	

#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%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	3/700 (0.43%)	Mean 0.43%	SD 0.85%	Total	3/700 (0.43%)	Mean 0.43%	SD 0.85%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Spinal Cord:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	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%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

*Spleen:									
Hemangiosarcoma									
		3/50 (6%)	0/50 (0%)	2/50 (4%)		2/49 (4%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	1/50 (2%)	
		3/48 (6%)	1/50 (2%)	1/46 (2%)		0/49 (0%)	0/50 (0%)	1/46 (2%)	
		1/50 (2%)	1/50 (2%)	4/49 (8%)		1/50 (2%)	1/50 (2%)	0/49 (0%)	
		2/50 (4%)	2/50 (4%)			3/50 (6%)	0/49 (0%)		
Overall Incidence	Total	23/693 (3.32%)	Mean 3.33%	SD 2.34%	Total	10/691 (1.45%)	Mean 1.45%	SD 1.84%	

*Spleen:									
Mast Cell Tumor Malignant									
		0/50 (0%)	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%)	1/49 (2%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/46 (0%)		0/49 (0%)	0/50 (0%)	0/46 (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%)	0/49 (0%)		
Overall Incidence	Total	0/693 (0%)	Mean 0%	SD 0%	Total	2/691 (0.29%)	Mean 0.29%	SD 0.74%	

#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		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%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	2/50 (4%)	2/50 (4%)	
		2/50 (4%)	9/50 (18%)	0/50 (0%)		1/50 (2%)	3/50 (6%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	5/50 (10%)	3/50 (6%)		1/50 (2%)	0/50 (0%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	24/700 (3.43%)	Mean 3.43%	SD 5.11%	Total	14/700 (2%)	Mean 2%	SD 1.92%	

#Stomach, Forestomach:									
Squamous Cell Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	2/50 (4%)	1/50 (2%)	
		1/50 (2%)	8/50 (16%)	0/50 (0%)		1/50 (2%)	3/50 (6%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	5/50 (10%)	3/50 (6%)		1/50 (2%)	0/50 (0%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	22/700 (3.14%)	Mean 3.14%	SD 4.69%	Total	13/700 (1.86%)	Mean 1.86%	SD 1.83%	

#Stomach, Glandular:									
Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/700 (0%)	Mean 0%	SD 0%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

#Stomach, Glandular:									
Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	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%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		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%)	1/50	(2%)	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%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%	Total	2/700 (0.29%)		
					Mean	0.29%	SD	0.73%				
*Testes:												
 Adenoma												
		1/50	(2%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	9/700 (1.29%)			Mean	1.29%	SD	1.27%				
*Testes:												
 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%)	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%)	
Overall Incidence	Total	1/700 (0.14%)			Mean	0.14%	SD	0.53%				
*Thymus:												
 Neoplasm NOS												
		0/42	(0%)	0/50	(0%)	0/44	(0%)	1/46	(2%)	0/50	(0%)	
		0/49	(0%)	0/48	(0%)	0/41	(0%)	0/49	(0%)	0/50	(0%)	
		0/48	(0%)	0/40	(0%)	0/41	(0%)	0/50	(0%)	0/48	(0%)	
		0/48	(0%)	0/47	(0%)	0/48	(0%)	0/50	(0%)	0/50	(0%)	
		0/39	(0%)	0/45	(0%)	0/47	(0%)	0/47	(0%)	0/50	(0%)	
Overall Incidence	Total	0/630 (0%)			Mean	0%	SD	0%	Total	1/673 (0.15%)		
					Mean	0.16%	SD	0.58%				

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Thymus:									
Thymoma Benign									
		0/42 (0%)	0/50 (0%)	0/44 (0%)		0/46 (0%)	0/50 (0%)	0/47 (0%)	
		1/49 (2%)	0/48 (0%)	0/41 (0%)		0/49 (0%)	0/50 (0%)	0/44 (0%)	
		0/48 (0%)	0/40 (0%)	0/41 (0%)		0/50 (0%)	0/48 (0%)	0/45 (0%)	
		0/48 (0%)	0/47 (0%)	0/48 (0%)		0/50 (0%)	0/50 (0%)	0/47 (0%)	
		0/39 (0%)	0/45 (0%)			0/47 (0%)	0/50 (0%)		
Overall Incidence	Total	1/630 (0.16%)	Mean 0.15%	SD 0.55%	Total	0/673 (0%)	Mean 0%	SD 0%	

*Thymus:									
Thymoma Malignant									
		0/42 (0%)	0/50 (0%)	0/44 (0%)		0/46 (0%)	0/50 (0%)	0/47 (0%)	
		0/49 (0%)	0/48 (0%)	0/41 (0%)		0/49 (0%)	0/50 (0%)	0/44 (0%)	
		0/48 (0%)	0/40 (0%)	0/41 (0%)		0/50 (0%)	0/48 (0%)	0/45 (0%)	
		0/48 (0%)	0/47 (0%)	0/48 (0%)		0/50 (0%)	0/50 (0%)	1/47 (2%)	
		0/39 (0%)	0/45 (0%)			0/47 (0%)	0/50 (0%)		
Overall Incidence	Total	0/630 (0%)	Mean 0%	SD 0%	Total	1/673 (0.15%)	Mean 0.15%	SD 0.57%	

*Thymus:									
Thymoma: Benign, Malignant, NOS									
		0/42 (0%)	0/50 (0%)	0/44 (0%)		0/46 (0%)	0/50 (0%)	0/47 (0%)	
		1/49 (2%)	0/48 (0%)	0/41 (0%)		0/49 (0%)	0/50 (0%)	0/44 (0%)	
		0/48 (0%)	0/40 (0%)	0/41 (0%)		0/50 (0%)	0/48 (0%)	0/45 (0%)	
		0/48 (0%)	0/47 (0%)	0/48 (0%)		0/50 (0%)	0/50 (0%)	1/47 (2%)	
		0/39 (0%)	0/45 (0%)			0/47 (0%)	0/50 (0%)		
Overall Incidence	Total	1/630 (0.16%)	Mean 0.15%	SD 0.55%	Total	1/673 (0.15%)	Mean 0.15%	SD 0.57%	

*Thyroid Gland: C-Cell:									
Adenoma									
		0/49 (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%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	1/50 (2%)	0/48 (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%)	0/49 (0%)		
Overall Incidence	Total	0/697 (0%)	Mean 0%	SD 0%	Total	1/695 (0.14%)	Mean 0.14%	SD 0.53%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
*Thyroid Gland: C-Cell: Carcinoma									
		0/49 (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%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/48 (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%)	0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	0/697 (0%)	Mean 0%	SD 0%	Total	1/695 (0.14%)	Mean 0.14%	SD 0.53%	
*Thyroid Gland: C-Cell: Carcinoma or Adenoma									
		0/49 (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%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	1/50 (2%)	0/48 (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%)	0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	0/697 (0%)	Mean 0%	SD 0%	Total	2/695 (0.29%)	Mean 0.29%	SD 0.73%	
*Thyroid Gland: Follicular Cell: Adenoma									
		0/49 (0%)	0/49 (0%)	1/50 (2%)		1/50 (2%)	0/49 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	1/50 (2%)	0/48 (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%)	0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	5/697 (0.72%)	Mean 0.72%	SD 1%	Total	3/695 (0.43%)	Mean 0.43%	SD 0.85%	
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/49 (0%)	0/49 (0%)	1/50 (2%)		1/50 (2%)	0/49 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	1/50 (2%)	0/48 (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%)	0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	5/697 (0.72%)	Mean 0.72%	SD 1%	Total	3/695 (0.43%)	Mean 0.43%	SD 0.85%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male					Female								
#Tissue NOS:															
Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total		1/700 (0.14%)		Mean 0.14%		SD 0.53%	
#Tissue NOS:															
Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total		1/700 (0.14%)		Mean 0.14%		SD 0.53%	
#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%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total		1/700 (0.14%)		Mean 0.14%		SD 0.53%	
#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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/700 (0%)		Mean 0%		SD 0%		Total		1/700 (0.14%)		Mean 0.14%		SD 0.53%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female			
#Tooth:									
Odontoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		5/50 (10%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	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%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	8/700 (1.14%)	Mean 1.14%	SD 2.8%	Total	0/700 (0%)	Mean 0%	SD 0%	

#Urethra:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	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%)	
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/700 (0%)	Mean 0%	SD 0%	

*Urinary Bladder:									
Hemangiosarcoma									
		0/48 (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%)	0/45 (0%)		0/50 (0%)	0/49 (0%)	0/44 (0%)	
		0/50 (0%)	0/50 (0%)	0/47 (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%)	
Overall Incidence	Total	1/690 (0.14%)	Mean 0.14%	SD 0.53%	Total	0/689 (0%)	Mean 0%	SD 0%	

#Uterus:									
Adenoma									
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	1/50 (2%)	1/50 (2%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total				Total	2/700 (0.29%)	Mean 0.29%	SD 0.73%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

	Male		Female			
#Uterus:						
Carcinoma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%		
.....						
#Uterus:						
Hemangioma						
		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%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%		
.....						
#Uterus:						
Hemangiosarcoma						
		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%)	0/50 (0%)		
		1/50 (2%)	1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	3/700 (0.43%)	Mean 0.43%	SD 0.85%		
.....						
#Uterus:						
Leiomyoma						
		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%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/700 (0.14%)	Mean 0.14%	SD 0.53%		

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

	Male		Female			
#Uterus:						
Polyp Stromal						
		2/50 (4%)		1/50 (2%)	2/50 (4%)	
		0/50 (0%)		2/50 (4%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)	2/50 (4%)	
		3/50 (6%)		0/50 (0%)	0/50 (0%)	
		2/50 (4%)		4/50 (8%)		
Overall Incidence		Total 18/700 (2.57%)		Mean 2.57%	SD 2.65%	
.....						
#Uterus:						
Sarcoma						
		0/50 (0%)		0/50 (0%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)	1/50 (2%)	
		0/50 (0%)		0/50 (0%)		
Overall Incidence		Total 1/700 (0.14%)		Mean 0.14%	SD 0.53%	
.....						
#Uterus:						
Sarcoma Stromal						
		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%)		2/50 (4%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)		
Overall Incidence		Total 3/700 (0.43%)		Mean 0.43%	SD 1.16%	
.....						
#Uterus:						
Sarcoma Stromal or Polyp Stromal						
		2/50 (4%)		2/50 (4%)	2/50 (4%)	
		0/50 (0%)		2/50 (4%)	0/50 (0%)	
		0/50 (0%)		0/50 (0%)	2/50 (4%)	
		3/50 (6%)		2/50 (4%)	0/50 (0%)	
		2/50 (4%)		4/50 (8%)		
Overall Incidence		Total 21/700 (3%)		Mean 3%	SD 2.57%	

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

Version: Nov2014
 Contract/Lab: All Laboratories
 Species: MICE
 Strain: B6C3F1
 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: 11/11/2014

		Male				Female						
#Zymbal's Gland:												
Carcinoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total	0/700 (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%)	0/50	(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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/700 (0.29%)		Mean 0.29%		SD 0.73%		Total	0/700 (0%)		Mean 0%	SD 0%
.....												

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