



National Toxicology Program
Department of Health and Human Services

NTP Historical Controls Report

All Routes and Vehicles

MICE

July 2015

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.

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Northwest	052060104	10/06/08	729	50(5)	38(708)	52.1	Antimony trioxide
Battelle Northwest	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 Northwest	052051504	05/05/08	729	50(5)	39(709)	52.6	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	729	50(5)	38(692)	52.4	Metal Working Fluids: Trim VX
Southern Research Institute	052020904	02/25/08	729	50(1)	29(657)	55.3	Pentabromodiphenyl Oxide (Technical) (DE 71)
Battelle Columbus Laboratory	052032004	08/07/07	730	50(1)	33(687)	55.8	Tetrabromobisphenol A
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	052060104	10/06/08	731	50(5)	36(692)	54.1	Antimony trioxide
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 Northwest	052051504	05/05/08	731	50(5)	39(696)	59.2	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	731	50(5)	35(692)	57.9	Metal Working Fluids: Trim VX
Southern Research Institute	052020904	02/25/08	731	50(5)	33(679)	57.7	Pentabromodiphenyl Oxide (Technical) (DE 71)
Battelle Columbus Laboratory	052032004	08/06/07	729	50(5)	40(711)	66.5	Tetrabromobisphenol A
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

		Male				Female			
#All Organs:									
Benign Tumors									
		37/50 (74%)	35/50 (70%)	38/50 (76%)	25/50 (50%)	29/50 (58%)	25/50 (50%)		
		43/50 (86%)	33/50 (66%)	39/50 (78%)	20/50 (40%)	17/50 (34%)	26/50 (52%)		
		32/50 (64%)	30/50 (60%)	38/50 (76%)	23/50 (46%)	24/50 (48%)	22/50 (44%)		
		43/50 (86%)	43/50 (86%)		32/50 (64%)	36/50 (72%)			
Overall Incidence	Total	411/550 (74.73%)	Mean 74.73%	SD 9.09%	Total	279/550 (50.73%)	Mean 50.73%	SD 10.74%	
.....									
#All Organs:									
Malignant Tumors									
		25/50 (50%)	36/50 (72%)	35/50 (70%)	25/50 (50%)	31/50 (62%)	28/50 (56%)		
		28/50 (56%)	27/50 (54%)	26/50 (52%)	18/50 (36%)	19/50 (38%)	30/50 (60%)		
		32/50 (64%)	27/50 (54%)	21/50 (42%)	27/50 (54%)	16/50 (32%)	18/50 (36%)		
		37/50 (74%)	30/50 (60%)		33/50 (66%)	31/50 (62%)			
Overall Incidence	Total	324/550 (58.91%)	Mean 58.91%	SD 10.09%	Total	276/550 (50.18%)	Mean 50.18%	SD 12.47%	
.....									
#All Organs:									
Malignant and Benign Tumors									
		45/50 (90%)	45/50 (90%)	44/50 (88%)	35/50 (70%)	40/50 (80%)	35/50 (70%)		
		49/50 (98%)	48/50 (96%)	46/50 (92%)	29/50 (58%)	30/50 (60%)	41/50 (82%)		
		42/50 (84%)	40/50 (80%)	47/50 (94%)	38/50 (76%)	34/50 (68%)	32/50 (64%)		
		49/50 (98%)	48/50 (96%)		45/50 (90%)	45/50 (90%)			
Overall Incidence	Total	503/550 (91.45%)	Mean 91.45%	SD 5.8%	Total	404/550 (73.45%)	Mean 73.45%	SD 11.1%	
.....									
#All Organs:									
Hemangioma									
		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%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	6/550 (1.09%)	Mean 1.09%	SD 1.64%	Total	4/550 (0.73%)	Mean 0.73%	SD 1.01%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#All Organs:									
Hemangiosarcoma									
		2/50 (4%)	7/50 (14%)	9/50 (18%)		4/50 (8%)	3/50 (6%)	2/50 (4%)	
		5/50 (10%)	4/50 (8%)	1/50 (2%)		2/50 (4%)	0/50 (0%)	3/50 (6%)	
		0/50 (0%)	1/50 (2%)	1/50 (2%)		2/50 (4%)	0/50 (0%)	1/50 (2%)	
		2/50 (4%)	5/50 (10%)			4/50 (8%)	6/50 (12%)		
Overall Incidence	Total	37/550 (6.73%)	Mean 6.73%	SD 5.75%	Total	27/550 (4.91%)	Mean 4.91%	SD 3.62%	
.....									
#All Organs:									
Hemangiosarcoma or Hemangioma									
		2/50 (4%)	7/50 (14%)	9/50 (18%)		4/50 (8%)	3/50 (6%)	2/50 (4%)	
		7/50 (14%)	4/50 (8%)	2/50 (4%)		2/50 (4%)	1/50 (2%)	3/50 (6%)	
		0/50 (0%)	1/50 (2%)	3/50 (6%)		3/50 (6%)	1/50 (2%)	2/50 (4%)	
		3/50 (6%)	5/50 (10%)			4/50 (8%)	6/50 (12%)		
Overall Incidence	Total	43/550 (7.82%)	Mean 7.82%	SD 5.62%	Total	31/550 (5.64%)	Mean 5.64%	SD 2.94%	
.....									
#All Organs:									
Histiocytic Sarcoma									
		1/50 (2%)	1/50 (2%)	0/50 (0%)		3/50 (6%)	1/50 (2%)	1/50 (2%)	
		0/50 (0%)	2/50 (4%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		4/50 (8%)	1/50 (2%)	1/50 (2%)	
		2/50 (4%)	1/50 (2%)			2/50 (4%)	2/50 (4%)		
Overall Incidence	Total	9/550 (1.64%)	Mean 1.64%	SD 1.5%	Total	18/550 (3.27%)	Mean 3.27%	SD 2.24%	
.....									
#All Organs:									
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type									
		4/50 (8%)	4/50 (8%)	1/50 (2%)		7/50 (14%)	14/50 (28%)	11/50 (22%)	
		4/50 (8%)	3/50 (6%)	3/50 (6%)		7/50 (14%)	6/50 (12%)	18/50 (36%)	
		6/50 (12%)	5/50 (10%)	3/50 (6%)		10/50 (20%)	7/50 (14%)	9/50 (18%)	
		2/50 (4%)	0/50 (0%)			14/50 (28%)	6/50 (12%)		
Overall Incidence	Total	35/550 (6.36%)	Mean 6.36%	SD 3.44%	Total	109/550 (19.82%)	Mean 19.82%	SD 7.92%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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: 06/29/2015

		Male				Female						
#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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	0/550 (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%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	0/550 (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%)	1/50	(2%)	
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	1/550 (0.18%)		Mean 0.18%	SD 0.6%
.....												
#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%)	0/50	(0%)	0/50	(0%)	
		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	0/550 (0%)		Mean 0%		SD 0%		Total	1/550 (0.18%)		Mean 0.18%	SD 0.6%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Adrenal Cortex:									
Adenoma									
		4/49 (8%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/49 (2%)	0/50 (0%)	9/49 (18%)	0/49 (0%)	2/49 (4%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
		3/50 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	2/50 (4%)		1/50 (2%)	0/49 (0%)			
Overall Incidence	Total	23/547 (4.2%)	Mean 4.23%	SD 5.28%	Total	4/546 (0.73%)	Mean 0.73%	SD 1.37%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Benign									
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	1/48 (2%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/49 (0%)	1/49 (2%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/49 (0%)	1/50 (2%)	0/49 (0%)	1/50 (2%)
		1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	3/546 (0.55%)	Mean 0.55%	SD 0.95%	Total	6/546 (1.1%)	Mean 1.09%	SD 1.38%	
.....									
*Adrenal Medulla:									
Pheochromocytoma Malignant									
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/49 (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%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	1/546 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/546 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Adrenal Medulla:									
Pheochromocytoma: Benign, Complex, Malignant, NOS									
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	1/48 (2%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/49 (0%)	1/49 (2%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/49 (0%)	1/50 (2%)	0/49 (0%)	1/50 (2%)
		2/50 (4%)	0/50 (0%)		2/50 (4%)	0/50 (0%)			
Overall Incidence	Total	4/546 (0.73%)	Mean 0.73%	SD 1.36%	Total	7/546 (1.28%)	Mean 1.28%	SD 1.62%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female					
#Blood Vessel:											
Hemangioma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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	0/550	(0%)	Mean 0%	SD 0%	Total	1/550	(0.18%)	Mean 0.18%	SD 0.6%	
#Blood Vessel:											
Hemangiosarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(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	0/550	(0%)	Mean 0%	SD 0%	Total	1/550	(0.18%)	Mean 0.18%	SD 0.6%	
*Bone Marrow:											
Hemangiosarcoma											
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/549	(0.73%)	Mean 0.73%	SD 1.01%	Total	1/548	(0.18%)	Mean 0.18%	SD 0.6%	
*Bone Marrow:											
Mast Cell Tumor Malignant											
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/549	(0.18%)	Mean 0.18%	SD 0.6%	Total	1/548	(0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Bone Marrow:									
Sarcoma									
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (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%)		
Overall Incidence	Total	0/549 (0%)	Mean 0%	SD 0%		Total	1/548 (0.18%)	Mean 0.18%	SD 0.6%
.....									
#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%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%		Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%
.....									
#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%)
		0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%		Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%
.....									
#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%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	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	0/550 (0%)	Mean 0%	SD 0%		Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		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%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total		1/550 (0.18%)	
				Mean 0.18%						SD 0.6%	
.....											
*Brain:											
Granular Cell Tumor Benign											
		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%)	0/49	(0%)
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		0/549 (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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		0/549 (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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		0/549 (0%)	
				Mean 0%						SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		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%)	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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (0%)	Mean 0%	SD 0%	
.....									
#Coagulating Gland:									
Sarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (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%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (0%)	Mean 0%	SD 0%	
.....									
#Harderian Gland:									
Adenoma									
		6/50 (12%)	6/50 (12%)	4/50 (8%)		3/50 (6%)	3/50 (6%)	5/50 (10%)	
		7/50 (14%)	6/50 (12%)	7/50 (14%)		2/50 (4%)	3/50 (6%)	2/50 (4%)	
		4/50 (8%)	5/50 (10%)	7/50 (14%)		1/50 (2%)	9/50 (18%)	2/50 (4%)	
		7/50 (14%)	6/50 (12%)	0/50 (0%)		1/50 (2%)	5/50 (10%)	0/50 (0%)	
Overall Incidence	Total	65/550 (11.82%)	Mean 11.82%	SD 2.27%	Total	36/550 (6.55%)	Mean 6.55%	SD 4.66%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female			
#Harderian Gland:									
Carcinoma									
		1/50 (2%)	2/50 (4%)	3/50 (6%)	4/50 (8%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	1/50 (2%)	5/50 (10%)	2/50 (4%)	0/50 (0%)	0/50 (0%)		
		2/50 (4%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	1/50 (2%)	1/50 (2%)		
		0/50 (0%)	0/50 (0%)		3/50 (6%)	0/50 (0%)			
Overall Incidence	Total	17/550 (3.09%)	Mean 3.09%	SD 2.88%	Total	15/550 (2.73%)	Mean 2.73%	SD 2.87%	
.....									
#Harderian Gland:									
Carcinoma or Adenoma									
		7/50 (14%)	8/50 (16%)	7/50 (14%)	7/50 (14%)	3/50 (6%)	6/50 (12%)		
		8/50 (16%)	7/50 (14%)	12/50 (24%)	4/50 (8%)	3/50 (6%)	2/50 (4%)		
		6/50 (12%)	6/50 (12%)	8/50 (16%)	4/50 (8%)	10/50 (20%)	3/50 (6%)		
		7/50 (14%)	6/50 (12%)		4/50 (8%)	5/50 (10%)			
Overall Incidence	Total	82/550 (14.91%)	Mean 14.91%	SD 3.39%	Total	51/550 (9.27%)	Mean 9.27%	SD 4.58%	
.....									
*Heart:									
Hemangiosarcoma									
		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%)			
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (0%)	Mean 0%	SD 0%	
.....									
#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%)		
		1/50 (2%)	1/50 (2%)		1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female					
#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%)
		1/50	(2%)	1/50	(2%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/550 (0.36%)		Mean 0.36%		SD 0.81%		Total		1/550 (0.18%)	
								Mean		0.18%	
								SD		0.6%	
.....											
#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%)	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	0/550 (0%)		Mean 0%		SD 0%		Total		1/550 (0.18%)	
								Mean		0.18%	
								SD		0.6%	
.....											
#Intestine Small: Duodenum:											
Adenoma											
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		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%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	9/550 (1.64%)		Mean 1.64%		SD 1.75%		Total		2/550 (0.36%)	
								Mean		0.36%	
								SD		0.81%	
.....											
#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%)	1/50	(2%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		0/550 (0%)	
								Mean		0%	
								SD		0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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 Report Date: 06/29/2015

		Male				Female			
#Intestine Small: Ileum:									
Adenoma									
		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%)
		1/50 (2%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
#Intestine Small: Ileum:									
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%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
#Intestine Small: Jejunum:									
Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	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%)	0/50 (0%)		
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	0/550 (0%)	Mean 0%	SD 0%	
.....									
#Intestine Small: Jejunum:									
Carcinoma									
		1/50 (2%)	0/50 (0%)	1/50 (2%)	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%)	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	6/550 (1.09%)	Mean 1.09%	SD 1.38%	Total	0/550 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#Intestine Small: Jejunum:									
Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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%)
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
#Intestine Small: Site Unspecified:									
Adenoma									
		2/50 (4%)	2/50 (4%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	3/50 (6%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		2/50 (4%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		1/50 (2%)	1/50 (2%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	13/550 (2.36%)	Mean 2.36%	SD 1.96%	Total	3/550 (0.55%)	Mean 0.55%	SD 0.93%	
#Intestine Small: Site Unspecified:									
Carcinoma									
		1/50 (2%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	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%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	2/50 (4%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	7/550 (1.27%)	Mean 1.27%	SD 1.62%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
#Intestine Small: Site Unspecified:									
Carcinoma or Adenoma									
		3/50 (6%)	2/50 (4%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)	3/50 (6%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		2/50 (4%)	0/50 (0%)	2/50 (4%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		1/50 (2%)	3/50 (6%)			2/50 (4%)	0/50 (0%)		
Overall Incidence	Total	20/550 (3.64%)	Mean 3.64%	SD 1.96%	Total	5/550 (0.91%)	Mean 0.91%	SD 1.38%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female			
#Intestine Small: Site Unspecified:									
Leiomyosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
*Islets, Pancreatic:									
Adenoma									
		0/49 (0%)	0/49 (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%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)	0/50 (0%)		1/50 (2%)	0/49 (0%)			
Overall Incidence	Total	8/548 (1.46%)	Mean 1.45%	SD 1.57%	Total	4/549 (0.73%)	Mean 0.73%	SD 1.01%	
.....									
*Islets, Pancreatic:									
Carcinoma									
		0/49 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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	1/548 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/549 (0%)	Mean 0%	SD 0%	
.....									
*Islets, Pancreatic:									
Carcinoma or Adenoma									
		0/49 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		2/50 (4%)	0/50 (0%)		1/50 (2%)	0/49 (0%)			
Overall Incidence	Total	9/548 (1.64%)	Mean 1.64%	SD 1.75%	Total	4/549 (0.73%)	Mean 0.73%	SD 1.01%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female									
*Kidney: Pelvis and Transitional Epithelium:															
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%)	0/49	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total		1/549 (0.18%)		Mean 0.18%		SD 0.6%	
.....															
*Kidney: Pelvis and Transitional Epithelium:															
Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)				
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total		1/549 (0.18%)		Mean 0.18%		SD 0.6%	
.....															
*Kidney: Renal Tubule:															
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%)	0/50	(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%)	2/50	(4%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/550 (0.55%)		Mean 0.55%		SD 1.29%		Total		0/549 (0%)		Mean 0%		SD 0%	
.....															
*Kidney: Renal Tubule:															
Carcinoma															
		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%)	0/49	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	2/550 (0.36%)		Mean 0.36%		SD 1.21%		Total		0/549 (0%)		Mean 0%		SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female							
*Kidney: Renal Tubule:													
 Carcinoma or Adenoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		3/50	(6%)	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%)	2/50	(4%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	5/550 (0.91%)		Mean 0.91%		SD 2.07%		Total 0/549 (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%)	0/49	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total 0/549 (0%)		Mean 0%		SD 0%	
.....													
*Liver:													
 Cholangiocarcinoma													
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(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	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total 0/549 (0%)		Mean 0%		SD 0%	
.....													
*Liver:													
 Hemangioma													
		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%)	2/50	(4%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/49	(0%)		
Overall Incidence	Total	4/550 (0.73%)		Mean 0.73%		SD 1.62%		Total 0/549 (0%)		Mean 0%		SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Liver:									
Hemangiosarcoma									
		0/50 (0%)	4/50 (8%)	9/50 (18%)		0/50 (0%)	2/50 (4%)	0/50 (0%)	
		3/50 (6%)	4/50 (8%)	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%)	1/50 (2%)			1/50 (2%)	2/49 (4%)		
Overall Incidence	Total	23/550 (4.18%)	Mean 4.18%	SD 5.62%	Total	6/549 (1.09%)	Mean 1.1%	SD 1.65%	
.....									
*Liver:									
Hepatoblastoma									
		2/50 (4%)	2/50 (4%)	3/50 (6%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		2/50 (4%)	3/50 (6%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	1/50 (2%)	2/50 (4%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	4/50 (8%)			0/50 (0%)	0/49 (0%)		
Overall Incidence	Total	20/550 (3.64%)	Mean 3.64%	SD 2.5%	Total	3/549 (0.55%)	Mean 0.55%	SD 0.93%	
.....									
*Liver:									
Hepatocellular Adenoma									
		30/50 (60%)	28/50 (56%)	31/50 (62%)		11/50 (22%)	19/50 (38%)	17/50 (34%)	
		35/50 (70%)	26/50 (52%)	24/50 (48%)		12/50 (24%)	7/50 (14%)	14/50 (28%)	
		23/50 (46%)	23/50 (46%)	32/50 (64%)		9/50 (18%)	5/50 (10%)	13/50 (26%)	
		37/50 (74%)	39/50 (78%)			25/50 (50%)	33/49 (67%)		
Overall Incidence	Total	328/550 (59.64%)	Mean 59.64%	SD 11.2%	Total	165/549 (30.05%)	Mean 30.12%	SD 16.72%	
.....									
*Liver:									
Hepatocellular Carcinoma									
		15/50 (30%)	25/50 (50%)	22/50 (44%)		6/50 (12%)	10/50 (20%)	9/50 (18%)	
		15/50 (30%)	12/50 (24%)	11/50 (22%)		5/50 (10%)	6/50 (12%)	10/50 (20%)	
		21/50 (42%)	18/50 (36%)	11/50 (22%)		7/50 (14%)	4/50 (8%)	2/50 (4%)	
		26/50 (52%)	12/50 (24%)			8/50 (16%)	9/49 (18%)		
Overall Incidence	Total	188/550 (34.18%)	Mean 34.18%	SD 11.26%	Total	76/549 (13.84%)	Mean 13.85%	SD 5.2%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Liver:									
Hepatocellular Carcinoma or Hepatoblastoma									
		16/50 (32%)	27/50 (54%)	24/50 (48%)	6/50 (12%)	10/50 (20%)	10/50 (20%)		
		17/50 (34%)	15/50 (30%)	11/50 (22%)	5/50 (10%)	6/50 (12%)	10/50 (20%)		
		21/50 (42%)	18/50 (36%)	12/50 (24%)	7/50 (14%)	4/50 (8%)	2/50 (4%)		
		27/50 (54%)	15/50 (30%)		8/50 (16%)	9/49 (18%)			
Overall Incidence	Total	203/550 (36.91%)	Mean 36.91%	SD 11.18%	Total	77/549 (14.03%)	Mean 14.03%	SD 5.4%	
.....									
*Liver:									
Hepatocellular Carcinoma or Hepatocellular Adenoma									
		39/50 (78%)	38/50 (76%)	39/50 (78%)	14/50 (28%)	25/50 (50%)	20/50 (40%)		
		40/50 (80%)	35/50 (70%)	32/50 (64%)	14/50 (28%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	31/50 (62%)	39/50 (78%)	15/50 (30%)	8/50 (16%)	15/50 (30%)		
		44/50 (88%)	42/50 (84%)		28/50 (56%)	36/49 (73%)			
Overall Incidence	Total	413/550 (75.09%)	Mean 75.09%	SD 8.17%	Total	207/549 (37.7%)	Mean 37.77%	SD 16.56%	
.....									
*Liver:									
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma									
		39/50 (78%)	39/50 (78%)	39/50 (78%)	14/50 (28%)	25/50 (50%)	20/50 (40%)		
		40/50 (80%)	36/50 (72%)	32/50 (64%)	14/50 (28%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	31/50 (62%)	39/50 (78%)	15/50 (30%)	8/50 (16%)	15/50 (30%)		
		45/50 (90%)	42/50 (84%)		28/50 (56%)	36/49 (73%)			
Overall Incidence	Total	416/550 (75.64%)	Mean 75.64%	SD 8.43%	Total	207/549 (37.7%)	Mean 37.77%	SD 16.56%	
.....									
*Liver:									
Hepatocholangiocarcinoma									
		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%)		
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	1/549 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Liver:									
Ito Cell Tumor Benign									
		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%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/549 (0%)	Mean 0%	SD 0%	
.....									
*Liver:									
Mast Cell Tumor Malignant									
		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%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	1/549 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Lung:									
Alveolar/Bronchiolar Adenoma									
		10/50 (20%)	7/50 (14%)	8/50 (16%)		1/50 (2%)	3/49 (6%)	0/50 (0%)	
		12/50 (24%)	4/50 (8%)	5/50 (10%)		5/50 (10%)	1/50 (2%)	1/50 (2%)	
		6/50 (12%)	5/50 (10%)	6/50 (12%)		4/50 (8%)	1/50 (2%)	5/50 (10%)	
		7/50 (14%)	13/50 (26%)			3/50 (6%)	3/50 (6%)		
Overall Incidence	Total	83/550 (15.09%)	Mean 15.09%	SD 5.89%	Total	27/549 (4.92%)	Mean 4.92%	SD 3.51%	
.....									
*Lung:									
Alveolar/Bronchiolar Carcinoma									
		4/50 (8%)	11/50 (22%)	11/50 (22%)		2/50 (4%)	5/49 (10%)	1/50 (2%)	
		2/50 (4%)	4/50 (8%)	8/50 (16%)		1/50 (2%)	2/50 (4%)	4/50 (8%)	
		10/50 (20%)	5/50 (10%)	4/50 (8%)		5/50 (10%)	0/50 (0%)	1/50 (2%)	
		9/50 (18%)	7/50 (14%)			1/50 (2%)	2/50 (4%)		
Overall Incidence	Total	75/550 (13.64%)	Mean 13.64%	SD 6.38%	Total	24/549 (4.37%)	Mean 4.38%	SD 3.48%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female			
*Lung:									
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma									
		13/50 (26%)	16/50 (32%)	17/50 (34%)	3/50 (6%)	8/49 (16%)	1/50 (2%)		
		14/50 (28%)	8/50 (16%)	13/50 (26%)	6/50 (12%)	3/50 (6%)	4/50 (8%)		
		14/50 (28%)	10/50 (20%)	10/50 (20%)	9/50 (18%)	1/50 (2%)	6/50 (12%)		
		13/50 (26%)	19/50 (38%)		4/50 (8%)	5/50 (10%)			
Overall Incidence	Total	147/550 (26.73%)	Mean 26.73%	SD 6.47%	Total	50/549 (9.11%)	Mean 9.12%	SD 5.21%	
.....									
*Lung:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	0/549 (0%)	Mean 0%	SD 0%	
.....									
#Lymph Node:									
Hemangiosarcoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	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	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
#Lymph Node, Mandibular:									
Mast Cell Tumor Malignant									
		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	0/550 (0%)	Mean 0%	SD 0%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female								
#Lymph Node, Mediastinal:														
Mast Cell Tumor Malignant														
		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	0/550 (0%)		Mean 0%		SD 0%		Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%	
.....														
#Lymph Node, Mesenteric:														
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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%	
.....														
#Lymph Node, Mesenteric:														
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%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	0/550 (0%)		Mean 0%		SD 0%	
.....														
#Mammary Gland:														
Carcinoma														
		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%)	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%)	1/50	(2%)	1/50	(2%)			
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	8/550 (1.45%)		Mean 1.45%		SD 1.29%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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 Report Date: 06/29/2015

		Male				Female			
#Mammary Gland:									
Carcinoma or Adenoma									
		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%)	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%)		1/50 (2%)	1/50 (2%)			
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	8/550 (1.45%)	Mean 1.45%	SD 1.29%	
.....									
#Mammary Gland:									
Fibroma, Fibroadenoma, Carcinoma, or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)		
		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%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)			
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	8/550 (1.45%)	Mean 1.45%	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%)	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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (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%)	1/50 (2%)			
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female								
#Mesentery:														
Lipoma														
		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%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%	
.....														
*Nose:														
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%)	1/48	(2%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/549 (0%)		Mean 0%		SD 0%		Total	1/548 (0.18%)		Mean 0.19%		SD 0.63%	
.....														
#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%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%	
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):														
Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	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%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	2/550 (0.36%)		Mean 0.36%		SD 0.81%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):									
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	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%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	3/550 (0.55%)	Mean 0.55%	SD 1.29%	
.....									
#Oral Mucosa:									
Squamous Cell Carcinoma									
		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%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
*Ovary:									
Choriocarcinoma									
						0/50 (0%)	0/48 (0%)	1/50 (2%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/48 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)		
Overall Incidence	Total				Total	1/546 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Ovary:									
Cystadenocarcinoma									
						0/50 (0%)	0/48 (0%)	0/50 (0%)	
						1/50 (2%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/48 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)		
Overall Incidence	Total				Total	1/546 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

	Male			Female		
*Ovary:						
Cystadenoma						
		1/50	(2%)	1/48	(2%)	2/50 (4%)
		3/50	(6%)	1/50	(2%)	2/50 (4%)
		1/50	(2%)	2/48	(4%)	2/50 (4%)
		1/50	(2%)	1/50	(2%)	
Overall Incidence		Total	17/546 (3.11%)	Mean	3.11%	SD 1.38%
.....						
*Ovary:						
Granulosa Cell Tumor Benign						
		0/50	(0%)	0/48	(0%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	1/50 (2%)
		1/50	(2%)	1/48	(2%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	
Overall Incidence		Total	3/546 (0.55%)	Mean	0.55%	SD 0.95%
.....						
*Ovary:						
Granulosa Cell Tumor Malignant						
		1/50	(2%)	0/48	(0%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	0/50 (0%)
		0/50	(0%)	0/48	(0%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	
Overall Incidence		Total	1/546 (0.18%)	Mean	0.18%	SD 0.6%
.....						
*Ovary:						
Granulosa Cell Tumor: Benign, Malignant, NOS						
		1/50	(2%)	0/48	(0%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	1/50 (2%)
		1/50	(2%)	1/48	(2%)	0/50 (0%)
		0/50	(0%)	0/50	(0%)	
Overall Incidence		Total	4/546 (0.73%)	Mean	0.73%	SD 1.02%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 Contract/Lab: All Laboratories
 Species: MICE
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Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
 Route: ALL ROUTES
 Vehicle: ALL VEHICLES

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	Male		Female			
*Ovary:						
Hemangiosarcoma						
		1/50 (2%)	0/48 (0%)	1/50 (2%)		
		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%)		
Overall Incidence	Total	2/546 (0.37%)	Mean	0.36%	SD	0.81%
.....						
*Ovary:						
Luteoma						
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		1/50 (2%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	2/546 (0.37%)	Mean	0.36%	SD	0.81%
.....						
*Ovary:						
Sarcoma						
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		1/50 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/546 (0.18%)	Mean	0.18%	SD	0.6%
.....						
*Ovary:						
Tubulostromal Adenoma						
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/48 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	1/546 (0.18%)	Mean	0.18%	SD	0.6%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Ovary:									
Yolk Sac Carcinoma									
						0/50 (0%)	1/48 (2%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/48 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)		
Overall Incidence					Total	1/546 (0.18%)	Mean 0.19%	SD 0.63%	
.....									
*Pancreas:									
Carcinoma									
		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%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			1/50 (2%)	0/49 (0%)		
Overall Incidence	Total	0/549 (0%)	Mean 0%	SD 0%	Total	1/549 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Pancreas:									
Carcinoma or Adenoma									
		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%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)			1/50 (2%)	0/49 (0%)		
Overall Incidence	Total	0/549 (0%)	Mean 0%	SD 0%	Total	1/549 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Parathyroid Gland:									
Adenoma									
		0/27 (0%)	0/29 (0%)	0/36 (0%)		0/27 (0%)	0/28 (0%)	0/47 (0%)	
		0/41 (0%)	0/48 (0%)	0/34 (0%)		0/35 (0%)	0/43 (0%)	0/26 (0%)	
		0/28 (0%)	0/48 (0%)	0/45 (0%)		1/35 (3%)	0/44 (0%)	0/34 (0%)	
		0/26 (0%)	0/44 (0%)			0/24 (0%)	0/45 (0%)		
Overall Incidence	Total	0/406 (0%)	Mean 0%	SD 0%	Total	1/388 (0.26%)	Mean 0.26%	SD 0.86%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Adenoma									
		0/49 (0%)	0/47 (0%)	0/49 (0%)	9/49 (18%)	3/47 (6%)	4/50 (8%)		
		1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/47 (0%)	0/50 (0%)	8/48 (17%)	5/50 (10%)	1/50 (2%)		
		0/49 (0%)	0/50 (0%)		8/50 (16%)	2/49 (4%)			
Overall Incidence	Total	2/540 (0.37%)	Mean 0.37%	SD 0.82%	Total	48/542 (8.86%)	Mean 8.87%	SD 6.06%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma									
		0/49 (0%)	0/47 (0%)	0/49 (0%)	0/49 (0%)	0/47 (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%)	0/47 (0%)	0/50 (0%)	3/48 (6%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	0/540 (0%)	Mean 0%	SD 0%	Total	3/542 (0.55%)	Mean 0.57%	SD 1.88%	
.....									
*Pituitary Gland: Pars Distalis or Unspecified Site:									
Carcinoma or Adenoma									
		0/49 (0%)	0/47 (0%)	0/49 (0%)	9/49 (18%)	3/47 (6%)	4/50 (8%)		
		1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/47 (0%)	0/50 (0%)	11/48 (23%)	5/50 (10%)	1/50 (2%)		
		0/49 (0%)	0/50 (0%)		8/50 (16%)	2/49 (4%)			
Overall Incidence	Total	2/540 (0.37%)	Mean 0.37%	SD 0.82%	Total	51/542 (9.41%)	Mean 9.44%	SD 7.08%	
.....									
*Pituitary Gland: Pars Intermedia:									
Adenoma									
		0/49 (0%)	0/47 (0%)	0/49 (0%)	0/49 (0%)	0/47 (0%)	1/50 (2%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/47 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		1/49 (2%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	1/540 (0.19%)	Mean 0.19%	SD 0.62%	Total	2/542 (0.37%)	Mean 0.37%	SD 0.82%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Pituitary Gland: Pars Intermedia:									
 Carcinoma or Adenoma									
		0/49 (0%)	0/47 (0%)	0/49 (0%)	0/49 (0%)	0/47 (0%)	1/50 (2%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/47 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		1/49 (2%)	0/50 (0%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	1/540 (0.19%)	Mean 0.19%	SD 0.62%	Total	2/542 (0.37%)	Mean 0.37%	SD 0.82%	
.....									
*Salivary Glands:									
 Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (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%)	0/48 (0%)			
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/548 (0%)	Mean 0%	SD 0%	
.....									
*Salivary Glands:									
 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%)	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%)	0/48 (0%)			
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/548 (0%)	Mean 0%	SD 0%	
.....									
*Salivary Glands:									
 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%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/548 (0%)	Mean 0%	SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		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%)		
		0/50	(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%)		
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 1/548 (0.18%)		Mean 0.18%		SD 0.6%	
.....													
*Salivary Glands:													
Myxosarcoma													
		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%)	0/48	(0%)	0/50	(0%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 1/548 (0.18%)		Mean 0.18%		SD 0.6%	
.....													
#Seminal Vesicle:													
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%)								
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%							
.....													
#Skeletal Muscle:													
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%)
		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%)		
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total 2/550 (0.36%)		Mean 0.36%		SD 0.81%	
.....													

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female					
#Skeletal Muscle:											
Rhabdomyosarcoma											
		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%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 3/550 (0.55%)		Mean 0.55%	
										SD 1.29%	
.....											
#Skeletal Muscle:											
Rhabdomyosarcoma or Rhabdomyoma											
		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%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 3/550 (0.55%)		Mean 0.55%	
										SD 1.29%	
.....											
#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%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 1/550 (0.18%)		Mean 0.18%	
										SD 0.6%	
.....											
#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%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total 2/550 (0.36%)		Mean 0.36%	
										SD 0.81%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#Skin:									
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)									
		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%)	1/50 (2%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
#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%)	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%)	1/50 (2%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	
.....									
#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%)	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%)	1/50 (2%)	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%)
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	3/550 (0.55%)	Mean 0.55%	SD 0.93%	
.....									
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	3/50 (6%)	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%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	4/50 (8%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
Overall Incidence	Total	5/550 (0.91%)	Mean 0.91%	SD 1.04%	Total	16/550 (2.91%)	Mean 2.91%	SD 2.59%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#Skin:									
Fibrosarcoma									
		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%)	
		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%)	0/50 (0%)		
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	4/550 (0.73%)	Mean 0.73%	SD 1.01%	
.....									
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	2/50 (4%)	3/50 (6%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/50 (2%)	1/50 (2%)			2/50 (4%)	4/50 (8%)		
Overall Incidence	Total	5/550 (0.91%)	Mean 0.91%	SD 1.04%	Total	16/550 (2.91%)	Mean 2.91%	SD 2.59%	
.....									
#Skin:									
Fibrous Histiocytoma									
		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%)	1/50 (2%)			0/50 (0%)	3/50 (6%)		
Overall Incidence	Total	2/550 (0.36%)	Mean 0.36%	SD 0.81%	Total	4/550 (0.73%)	Mean 0.73%	SD 1.85%	
.....									
#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%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female									
#Skin:															
Hemangiosarcoma															
		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%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)		
		0/50	(0%)	1/50	(2%)			0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		5/550 (0.91%)		Mean 0.91%		SD 1.38%	
.....															
#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%)	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	2/550 (0.36%)		Mean 0.36%		SD 0.81%		Total		0/550 (0%)		Mean 0%		SD 0%	
.....															
#Skin:															
Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(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%)	1/50	(2%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/550 (0.55%)		Mean 0.55%		SD 1.29%		Total		0/550 (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%)		
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total		0/550 (0%)		Mean 0%		SD 0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
#Skin:									
Melanoma Benign									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	0/550 (0%)	Mean 0%	SD 0%	
.....									
#Skin:									
Melanoma Malignant									
		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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
#Skin:									
Neural Crest Tumor									
		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%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
#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%)	1/50 (2%)	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%)
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	4/550 (0.73%)	Mean 0.73%	SD 1.85%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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 Report Date: 06/29/2015

		Male				Female							
#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%)	1/50	(2%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	3/50	(6%)		
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	4/550 (0.73%)		Mean 0.73%	SD 1.85%	
.....													
#Skin:													
Sarcoma													
		0/50	(0%)	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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			1/50	(2%)	1/50	(2%)		
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	8/550 (1.45%)		Mean 1.45%	SD 2.02%	
.....													
#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%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	3/50	(6%)		
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	4/550 (0.73%)		Mean 0.73%	SD 1.85%	
.....													
#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%)	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%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/550 (0%)		Mean 0%		SD 0%		Total	2/550 (0.36%)		Mean 0.36%	SD 0.81%	

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

Version: Jul2015
 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

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 Report Date: 06/29/2015

		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%)	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	0/550 (0%)		Mean 0%		SD 0%		Total		1/550 (0.18%)	
								Mean		0.18%	
										SD 0.6%	
.....											
#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%)	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	0/550 (0%)		Mean 0%		SD 0%		Total		1/550 (0.18%)	
								Mean		0.18%	
										SD 0.6%	
.....											
#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%)	1/50	(2%)
		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	2/550 (0.36%)		Mean 0.36%		SD 0.81%		Total		1/550 (0.18%)	
								Mean		0.18%	
										SD 0.6%	
.....											
#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%)	1/50	(2%)
		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	2/550 (0.36%)		Mean 0.36%		SD 0.81%		Total		1/550 (0.18%)	
								Mean		0.18%	
										SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Spleen:									
Hemangiosarcoma									
		2/49 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)	2/49 (4%)	1/50 (2%)		
		2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/49 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		2/50 (4%)	2/50 (4%)		3/50 (6%)	0/49 (0%)			
Overall Incidence	Total	14/548 (2.55%)	Mean 2.55%	SD 2.02%	Total	8/548 (1.46%)	Mean 1.46%	SD 2.03%	
.....									
*Spleen:									
Mast Cell Tumor Malignant									
		0/49 (0%)	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%)	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%)	0/49 (0%)			
Overall Incidence	Total	0/548 (0%)	Mean 0%	SD 0%	Total	1/548 (0.18%)	Mean 0.19%	SD 0.62%	
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	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%)			
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
#Stomach, Forestomach:									
Squamous Cell Carcinoma or Papilloma Squamous									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)		
		0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)		
		1/50 (2%)	2/50 (4%)	5/50 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)			
Overall Incidence	Total	12/550 (2.18%)	Mean 2.18%	SD 3.03%	Total	9/550 (1.64%)	Mean 1.64%	SD 1.5%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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		Male				Female			
#Stomach, Forestomach:									
Squamous Cell Papilloma									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/50 (2%)	2/50 (4%)	5/50 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)			
Overall Incidence	Total	11/550 (2%)	Mean 2%	SD 2.97%	Total	8/550 (1.45%)	Mean 1.45%	SD 1.29%	
.....									
#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%)	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	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
#Stomach, Glandular:									
Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (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%)			
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
.....									
*Testes:									
Adenoma									
		0/49 (0%)	1/50 (2%)	1/50 (2%)					
		1/50 (2%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	2/50 (4%)	0/50 (0%)					
		1/50 (2%)	1/50 (2%)						
Overall Incidence	Total	7/549 (1.28%)	Mean 1.27%	SD 1.35%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Testes:									
Hemangioma									
		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%)				
Overall Incidence	Total	1/549 (0.18%)		Mean 0.18%		SD 0.6%			
.....									
*Thymus:									
Neoplasm NOS									
		0/41	(0%)	0/42	(0%)	0/50	(0%)	0/47	(0%)
		0/44	(0%)	0/49	(0%)	0/41	(0%)	0/47	(0%)
		0/44	(0%)	0/40	(0%)	0/47	(0%)	0/48	(0%)
		0/39	(0%)	0/45	(0%)			0/48	(0%)
								0/50	(0%)
								0/49	(0%)
								0/44	(0%)
								0/50	(0%)
Overall Incidence	Total	0/482 (0%)		Mean 0%		SD 0%		Total 1/526 (0.19%)	
								Mean 0.2%	
								SD 0.66%	
.....									
*Thymus:									
Thymoma Benign									
		0/41	(0%)	0/42	(0%)	0/50	(0%)	0/47	(0%)
		0/44	(0%)	1/49	(2%)	0/41	(0%)	0/47	(0%)
		0/44	(0%)	0/40	(0%)	0/47	(0%)	0/48	(0%)
		0/39	(0%)	0/45	(0%)			0/48	(0%)
								0/50	(0%)
								0/49	(0%)
								0/44	(0%)
								0/50	(0%)
Overall Incidence	Total	1/482 (0.21%)		Mean 0.19%		SD 0.62%		Total 0/526 (0%)	
								Mean 0%	
								SD 0%	
.....									
*Thymus:									
Thymoma NOS									
		0/41	(0%)	0/42	(0%)	0/50	(0%)	1/47	(2%)
		0/44	(0%)	0/49	(0%)	0/41	(0%)	0/47	(0%)
		0/44	(0%)	0/40	(0%)	0/47	(0%)	0/48	(0%)
		0/39	(0%)	0/45	(0%)			0/48	(0%)
								0/50	(0%)
								0/49	(0%)
								0/44	(0%)
								0/50	(0%)
Overall Incidence	Total	0/482 (0%)		Mean 0%		SD 0%		Total 1/526 (0.19%)	
								Mean 0.19%	
								SD 0.64%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female								
*Thymus:														
Thymoma: Benign, Malignant, NOS														
		0/41	(0%)	0/42	(0%)	0/50	(0%)	1/47	(2%)	0/46	(0%)	0/50	(0%)	
		0/44	(0%)	1/49	(2%)	0/41	(0%)	0/47	(0%)	0/49	(0%)	0/44	(0%)	
		0/44	(0%)	0/40	(0%)	0/47	(0%)	0/48	(0%)	0/48	(0%)	0/50	(0%)	
		0/39	(0%)	0/45	(0%)			0/47	(0%)	0/50	(0%)			
Overall Incidence	Total	1/482 (0.21%)		Mean 0.19%		SD 0.62%		Total	1/526 (0.19%)		Mean 0.19%		SD 0.64%	
.....														
*Thyroid Gland: C-Cell:														
Adenoma														
		0/49	(0%)	0/49	(0%)	0/49	(0%)	0/48	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		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%)			
Overall Incidence	Total	0/547 (0%)		Mean 0%		SD 0%		Total	1/546 (0.18%)		Mean 0.18%		SD 0.6%	
.....														
*Thyroid Gland: C-Cell:														
Carcinoma														
		0/49	(0%)	0/49	(0%)	0/49	(0%)	0/48	(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%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	0/547 (0%)		Mean 0%		SD 0%		Total	2/546 (0.37%)		Mean 0.36%		SD 0.81%	
.....														
*Thyroid Gland: C-Cell:														
Carcinoma or Adenoma														
		0/49	(0%)	0/49	(0%)	0/49	(0%)	0/48	(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%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	0/547 (0%)		Mean 0%		SD 0%		Total	3/546 (0.55%)		Mean 0.55%		SD 0.93%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male				Female			
*Thyroid Gland: Follicular Cell: Adenoma									
		0/49 (0%)	0/49 (0%)	0/49 (0%)	0/48 (0%)	1/50 (2%)	0/49 (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%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	3/547 (0.55%)	Mean 0.55%	SD 0.93%	Total	3/546 (0.55%)	Mean 0.55%	SD 0.93%	
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma									
		0/49 (0%)	0/49 (0%)	0/49 (0%)	0/48 (0%)	1/50 (2%)	0/49 (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%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)		0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	3/547 (0.55%)	Mean 0.55%	SD 0.93%	Total	3/546 (0.55%)	Mean 0.55%	SD 0.93%	
#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%)	1/50 (2%)		
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	
#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%)	1/50 (2%)		
		0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/550 (0%)	Mean 0%	SD 0%	Total	1/550 (0.18%)	Mean 0.18%	SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		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%)	2/50	(4%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/550 (0.36%)		Mean 0.36%		SD 1.21%		Total	0/550 (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%)	1/50	(2%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/550 (0.18%)		Mean 0.18%		SD 0.6%		Total	0/550 (0%)		Mean 0%	SD 0%	
.....													
*Urinary Bladder:													
Hemangiosarcoma													
		0/50	(0%)	0/48	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)		
Overall Incidence	Total	1/548 (0.18%)		Mean 0.18%		SD 0.6%		Total	0/547 (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%)	0/50	(0%)		
						0/50	(0%)	0/50	(0%)				
Overall Incidence	Total					1/550 (0.18%)		Mean 0.18%		SD 0.6%			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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 Report Date: 06/29/2015

	Male		Female			
#Uterus:						
Granular Cell Tumor Benign						
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%		SD 0.6%	
.....						
#Uterus:						
Hemangioma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%		SD 0.6%	
.....						
#Uterus:						
Hemangiosarcoma						
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	5/550 (0.91%)	Mean 0.91%		SD 1.04%	
.....						
#Uterus:						
Leiomyoma						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/550 (0.18%)	Mean 0.18%		SD 0.6%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015
 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

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 Report Date: 06/29/2015

					Male						Female	
#Uterus:												
Polyp Stromal												
					4/50	(8%)			2/50	(4%)	1/50	(2%)
					2/50	(4%)			0/50	(0%)	0/50	(0%)
					1/50	(2%)			0/50	(0%)	0/50	(0%)
					2/50	(4%)			4/50	(8%)		
Overall Incidence					Total		16/550 (2.91%)		Mean		2.91%	
											SD 3.02%	
.....												
#Uterus:												
Sarcoma Stromal												
					0/50	(0%)			0/50	(0%)	1/50	(2%)
					0/50	(0%)			0/50	(0%)	0/50	(0%)
					0/50	(0%)			0/50	(0%)	2/50	(4%)
					0/50	(0%)			0/50	(0%)		
Overall Incidence					Total		3/550 (0.55%)		Mean		0.55%	
											SD 1.29%	
.....												
#Uterus:												
Sarcoma Stromal or Polyp Stromal												
					4/50	(8%)			2/50	(4%)	2/50	(4%)
					2/50	(4%)			0/50	(0%)	0/50	(0%)
					1/50	(2%)			0/50	(0%)	2/50	(4%)
					2/50	(4%)			4/50	(8%)		
Overall Incidence					Total		19/550 (3.45%)		Mean		3.45%	
											SD 2.84%	
.....												
#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%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
Overall Incidence		Total		1/550 (0.18%)		Mean		0.18%		SD 0.6%		
										Total		
										0/550 (0%)		
										Mean		
										0%		
										SD		
										0%		
.....												

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Jul2015

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

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Report Date: 06/29/2015

		Male				Female			
#Zymbal's Gland:									
Carcinoma or Adenoma									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		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	1/550 (0.18%)		Mean 0.18%	SD 0.6%	Total 0/550 (0%)		Mean 0%	SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied