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: ORAL Vehicle: WATER

		Study Summary											
Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical						
					Male								
Battelle Columbus Laboratory	052000904	11/09/04	730	50(1)	24(645)	57.1	beta-Picoline						
Battelle Columbus Laboratory	059601406	09/26/06	730	50(1)	25(660)	55.9	Water disinfection byproducts (Bromodichloroacetic acid)						
					Female								
Battelle Columbus Laboratory	052000904	11/08/04	729	50(5)	38(702)	67.4	beta-Picoline						
Battelle Columbus Laboratory	059601406	09/25/06	729	50(5)	30(680)	63.5	Water disinfection byproducts (Bromodichloroacetic acid)						

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			Male				Female	
#All Organs: Benign Tumors Overall Incidence	Total	36/50 (72%) 79/100 (79%)	43/50 (86%) Mean 79%	SD 9.9%	Total	40/50 (80%) 76/100 (76%)	36/50 (72%) Mean 76%	SD 5.66%
		19/100 (19/8)						30 3.00%
#All Organs: Malignant Tumors		36/50 (72%)	30/50 (60%)			29/50 (58%)	31/50 (62%)	
Overall Incidence	Total	66/100 (66%)	Mean 66%	SD 8.49%	Total	60/100 (60%)	Mean 60%	SD 2.83%
#All Organs: Malignant and Benign Tumc Overall Incidence		48/50 (96%) 96/100 (96%)	48/50 (96%) Mean 96%	SD 0%	Total	43/50 (86%) 88/100 (88%)	45/50 (90%) Mean 88%	SD 2.83%
#All Organs: Hemangioma Overall Incidence	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
	10tai					0/100 (0%)		30 0%
#All Organs: Hemangiosarcoma		6/50 (12%)	5/50 (10%)			3/50 (6%)	6/50 (12%)	
Overall Incidence	Total	11/100 (11%)	Mean 11%	SD 1.41%	Total	9/100 (9%)	Mean 9%	SD 4.24%
#All Organs: Hemangiosarcoma or Hema	ngioma	7/50 (14%)	5/50 (10%)			3/50 (6%)	6/50 (12%)	
Overall Incidence	Total	12/100 (12%)	Mean 12%	SD 2.83%	Total	9/100 (9%)	Mean 9%	SD 4.24%

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Toxicol Tumor Incider	Page: 114 Report Date: 11/11/2014				
			Male			Female		
#All Organs: Histiocytic Sarcoma								
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	1/50 (2%) 3/100 (3%)	2/50 (4%) Mean 3%	SD 1.41%
#All Organs: Malignant Lymphoma: Histic		phocytic. Mixed. NOS. or						
manghant Lymphomai moti	, _ j,	0/50 (0%)	0/50 (0%)			14/50 (28%)	6/50 (12%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	20/100 (20%)	Mean 20%	SD 11.31%
#All Organs: Mesothelioma: Benign								
Overall Incidence	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
All Organs: Mesothelioma: Benign, Mali						0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
All Organs: Mesothelioma: Malignant						0/50 /00/1	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#All Organs: Osteoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Toxicol Tumor Incider	Page: 115 Report Date: 11/11/2014				
			Male			Female		
#All Organs: Osteosarcoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	2/50 (4%) 2/100 (2%)	0/50 (0%) Mean 2%	SD 2.83%
All Organs: Osteosarcoma or Osteoma		0/50 (0%)	0/50 (0%)			2/50 (4%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	3/100 (3%)	Mean 3%	SD 1.41%
Adrenal Cortex: Adenoma Dverall Incidence	Total	2/49 (4%) 4/99 (4.04%)	2/50 (4%) Mean 4.04%	SD 0.06%	Total	0/49 (0%) 0/98 (0%)	0/49 (0%) Mean 0%	SD 0%
Adrenal Medulla: Pheochromocytoma Benign Iverall Incidence		0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	1/49 (2%) 1/99 (1.01%)	0/50 (0%) Mean 1.02%	SD 1.44%
Adrenal Medulla: Pheochromocytoma Maligna	ant	0/49 (0%)	0/50 (0%)			0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
Adrenal Medulla: Pheochromocytoma: Benigr	n, Complex	, Malignant, NOS 0/49 (0%)	0/50 (0%)			1/49 (2%)	0/50 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%

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			Male			Female					
#Blood Vessel: Hemangioma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%			
*Bone Marrow: Hemangioma											
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
*Bone Marrow: Hemangiosarcoma		2/50 (4%)	0/50 (0%)			1/49 (2%)	0/50 (0%)				
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%			
Bone Marrow: Mast Cell Tumor Malignant		0/50 (0%)	0/50 (0%)			0/49 (0%)	0/50 (0%)				
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%			
Bone Marrow: Sarcoma											
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
#Bone: Fibroma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%			

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			Male		Female			
#Bone: Hemangiosarcoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Bone: Osteoma		2/52 (25%)	0/50 (001)			0/50 (00/)		
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%
#Bone: Osteosarcoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	2/50 (4%) 2/100 (2%)	0/50 (0%) Mean 2%	SD 2.83%
#Bone: Osteosarcoma or Osteoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	2/50 (4%) 3/100 (3%)	1/50 (2%) Mean 3%	SD 1.41%
		()		50 0%		3/100 (378)	Mean 576	50 1.4170
#Bone: Sarcoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Brain: Granular Cell Tumor Benign		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%

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		Male				Female		
	0/50 (0%)	1/50 (2%)			0/50 (0%)	0/49 (0%)		
Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/99 (0%)	Mean 0%	SD 0%	
Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/99 (0%)	Mean 0%	SD 0%	
ant	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
	. ,				. ,		SD 0%	
a, or Astrocy	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)		
Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%	
Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/97 (0%)	Mean 0%	SD 0%	
	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/47 (0%)		
Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/97 (0%)	Mean 0%	SD 0%	
	gnant, NOS Total ant Total a, or Astrocy Total Total	0/50 (0%) Total 1/100 (1%) gnant, NOS 0/50 (0%) Total 1/100 (1%) ant 0/50 (0%) Total 1/100 (1%) ant 0/50 (0%) Total 0/100 (0%) Total 0/100 (0%) Total 0/50 (0%) Total 0/100 (0%) Total 0/100 (0%) Total 0/50 (0%) Total 0/100 (0%)	Male Male 0/50 (0%) 1/50 (2%) Total 1/100 (1%) Mean 1% 0/50 (0%) gnant, NOS 0/50 (0%) Total 1/100 (1%) Mean 1% 0/50 (0%) ant 0/50 (0%) 0/50 (0%) 0/50 (0%) Total 0/100 (0%) Mean 0% 0/50 (0%) A, or Astrocytoma 0/50 (0%) 0/50 (0%) 0/50 (0%) Total 0/100 (0%) Mean 0% 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%)	Male 0/50 (0%) 1/50 (2%) Total 1/100 (1%) Mean 1% SD 1.41% gnant, NOS 0/50 (0%) 1/50 (2%) Total 1/100 (1%) Mean 1% SD 1.41% gnant, NOS 0/50 (0%) 1/50 (2%) Total 0/50 (0%) 1/50 (2%) Total Notal 0/50 (0%) 1/50 (2%) Total Notal 0/50 (0%) 1/50 (2%) Total Notal 0/50 (0%) 0/50 (0%) Notal SD 1.41% ant 0/50 (0%) 0/50 (0%) SD 0% a, or Astrocytoma 0/50 (0%) 0/50 (0%) SD 0% Total 0/100 (0%) Mean 0% SD 0% 0/50 (0%) 0/50 (0%) Nos No% 0/50 (0%) 0/50 (0%) Nos No% 0/50 (0%) 0/50 (0%) Nos No% 0/50 (0%) 0/50 (0%) No% No% 0/50 (0%) 0/50 (0%) No% No%	Route: ORAL Vehicle: WATER Male Male Total 1/100 (1%) Mean 1% SD 1.41% Total gnant, NOS 0/50 (0%) 1/50 (2%) Total Total gnant 0/50 (0%) 0/50 (0%) Total Total gnant 0/50 (0%) 0/50 (0%) SD 0% Total	Tumor Incidence for Selected Control Animal Groups Route: ORAL Vehicle: WATER Male Male 1/100 (1%) 1/50 (2%) Mean 1% 0/50 (0%) SD 1.41% 0/50 (0%) O/50 (0%) gnant, NOS 0/50 (0%) 1/50 (2%) Mean 1% Total 0/50 (0%) O/50 (0%) gnant, NOS 0/50 (0%) 1/50 (2%) Mean 1% Total 0/50 (0%) O/50 (0%) ant 0/50 (0%) Total 0/50 (0%) Mean 0% 0/50 (0%) SD 0% 0/50 (0%) Total 0/50 (0%) O/50 (0%) a, or Astrocytoma 0/50 (0%) Mean 0% SD 0% Total 0/99 (0%) 1/100 (0%) 0/50 (0%) Mean 0% SD 0% Total 0/99 (0%) 0/50 (0%) 0/50 (0%) Mean 0% SD 0% Total 0/99 (0%) 0/50 (0%) 0/50 (0%) Mean 0% SD 0% Total 0/99 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) Mean 0% 0/50 0% 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%)	Tumor Incidence for Selected Control Animal Groups Route: ORAL Vehicle: WATER Report Dat Route: ORAL Vehicle: WATER Male Female 0/50 (0%) 1/50 (2%) Mean 1% 0/50 (0%) Mean 1% 0/50 (0%) Mean 0% 0/49 (0%) Mean 0% gnant, NOS 0/50 (0%) 1/50 (2%) Mean 1% Total 0/50 (0%) Mean 0% 0/49 (0%) Mean 0% ant 0/50 (0%) 1/50 (2%) Mean 0% Total 0/50 (0%) Mean 0% 0/49 (0%) Mean 0% ant 0/50 (0%) 0/50 (0%) Mean 0% 0/50 (0%) Mean 0%	

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			Male		Female			
#Coagulating Gland: Granular Cell Tumor		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Coagulating Gland: Sarcoma						- (()		
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Eye: Melanoma Malignant Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Harderian Gland: Adenoma Overall Incidence	Total	5/50 (10%) 11/100 (11%)	6/50 (12%) Mean 11%	SD 1.41%	Total	2/50 (4%) 7/100 (7%)	5/50 (10%) Mean 7%	SD 4.24%
#Harderian Gland: Carcinoma		2/50 (4%)	0/50 (0%)			2/50 (4%)	0/50 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	2/100 (2%)	Mean 2%	SD 2.83%
#Harderian Gland: Carcinoma or Adenoma		7/50 (14%)	6/50 (12%)			4/50 (8%)	5/50 (10%)	
Overall Incidence	Total	13/100 (13%)	Mean 13%	SD 1.41%	Total	9/100 (9%)	Mean 9%	SD 1.41%

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			Male			Female		
*Heart: Hemangiosarcoma		1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%
#Intestine Large: Cecum: Adenoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
						. ,		
#Intestine Large: Cecum: Carcinoma						- / /	- / /	
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Large: Cecum: Carcinoma or Adenoma		0/50 (00/)	4/50 (00()			0/50 (00()	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Large: Cecum: Leiomyosarcoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
		()		070 070	ı ulaı	0/100 (070)		0 /0 U/0
#Intestine Small: Duodenum: Adenoma		0/50 (001)						
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
						()		

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Page: 121 Report Date: 11/11/2014					
			Male			Female		
#Intestine Small: Duodenum: Carcinoma								
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Ileum: Adenoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Ileum: Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Jejunum: Adenoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Jejunum: Carcinoma								
Overall Incidence	Total	2/50 (4%) 3/100 (3%)	1/50 (2%) Mean 3%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Jejunum: Leiomyosarcoma						·····		
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%

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			Male			Female		
#Intestine Small: Site Uns Adenoma	pecified:	0/50 (00/)	4/50 (QQ())			0/50 (00/)	0/50 /00/)	
Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Site Unsp Carcinoma								
Overall Incidence	Total	2/50 (4%) 4/100 (4%)	2/50 (4%) Mean 4%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Site Unsp Carcinoma or Adenoma	pecified:							
Overall Incidence	Total	2/50 (4%) 5/100 (5%)	3/50 (6%) Mean 5%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Intestine Small: Site Uns Leiomyosarcoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Islets, Pancreatic: Adenoma								
Overall Incidence	Total	1/49 (2%) 1/99 (1.01%)	0/50 (0%) Mean 1.02%	SD 1.44%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%
*Islets, Pancreatic: Carcinoma		0/40 (0%)	0/50 (0%/)			0/48 (00/.)	0/40 (00/)	
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%

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			Male			Female		
*Islets, Pancreatic: Carcinoma or Adenoma		1/49 (2%)	0/50 (0%)			0/48 (0%)	0/49 (0%)	
Overall Incidence	Total	1/99 (1.01%)	Mean 1.02%	SD 1.44%	Total	0/97 (0%)	Mean 0%	SD 0%
*Kidney: Pelvis and Transition Carcinoma		um:						
Overall Incidence	Total	0/50 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%)	0/50 (0%) Mean 0%	SD 0%
		0/100 (0%)				0/99 (0%)		
*Kidney: Pelvis and Transition Carcinoma or Adenoma	nal Epitheliu							
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%
		. ,				()		
*Kidney: Renal Tubule: Adenoma		0/50 (0%)	2/50 (4%)			0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/99 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Carcinoma								
		0/50 (0%)	0/50 (0%)			0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Carcinoma or Adenoma							0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 2/100 (2%)	2/50 (4%) Mean 2%	SD 2.83%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%
		. ,				()		

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			Male			Female				
*Kidney: Renal Tubule: Hemangioma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%		
		0/100 (0/8)				0/33 (078)				
*Kidney: Renal Tubule: Hemangiosarcoma		0/50 (0%)	0/50 (0%)			0/49 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%		
*Liver: Hemangioma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/98 (0%)	0/49 (0%) Mean 0%	SD 0%		
								50 0%		
*Liver: Hemangiosarcoma		5/50 (10%)	1/50 (2%)			2/49 (4%)	2/49 (4%)			
Overall Incidence	Total	6/100 (6%)	Mean 6%	SD 5.66%	Total	4/98 (4.08%)	Mean 4.08%	SD 0%		
*Liver: Hepatoblastoma		6/50 (12%)	4/50 (8%)			1/49 (2%)	0/49 (0%)			
Overall Incidence	Total	10/100 (10%)	Mean 10%	SD 2.83%	Total	1/98 (1.02%)	Mean 1.02%	SD 1.44%		
*Liver: Hepatocellular Adenoma		33/50 (66%)	39/50 (78%)			38/49 (78%)	33/49 (67%)			
Overall Incidence	Total	72/100 (72%)	Mean 72%	SD 8.49%	Total	71/98 (72.45%)	Mean 72.45%	SD 7.22%		

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			Male		Female			
*Liver: Hepatocellular Carcinoma		26/50 (52%)	12/50 (24%)			11/49 (22%)	9/49 (18%)	
Overall Incidence	Total	38/100 (38%)	Mean 38%	SD 19.8%	Total	20/98 (20.41%)	Mean 20.41%	SD 2.89%
*Liver: Hepatocellular Carcinoma c		astoma 26/50 (52%)	15/50 (30%)			12/49 (24%)	9/49 (18%)	
Overall Incidence	Total	41/100 (41%)	Mean 41%	SD 15.56%	Total	21/98 (21.43%)	Mean 21.43%	SD 4.33%
*Liver: Hepatocellular Carcinoma c Overall Incidence	Total	45/50 (90%) 87/100 (87%)	42/50 (84%) Mean 87%	SD 4.24%	Total	40/49 (82%) 76/98 (77.55%)	36/49 (73%) Mean 77.55%	SD 5.77%
*Liver: Hepatocellular Carcinoma, I						40/49 (82%)	36/49 (73%)	
Overall Incidence	Total	87/100 (87%)	Mean 87%	SD 4.24%	Total	76/98 (77.55%)	Mean 77.55%	SD 5.77%
*Liver: Hepatocholangiocarcinoma		2/50 (4%)	0/50 (0%)			0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/98 (0%)	Mean 0%	SD 0%
*Liver: Ito Cell Tumor Benign		0/50 (0%)	0/50 (0%)			0/49 (0%)	0/49 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%

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			Male			Female				
*Liver: Mast Cell Tumor Malignant		0/50 (0%)	0/50 (0%)			0/49 (0%)	0/49 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%		
*Liver: Sarcoma		0/50 (0%)	0/50 (00/)			0/49 (0%)	0/40 (0%)			
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/98 (0%)	0/49 (0%) Mean 0%	SD 0%		
*Lung: Alveolar/Bronchiolar Adenc Overall Incidence	Total	6/50 (12%) 19/100 (19%)	13/50 (26%) Mean 19%	SD 9.9%	Total	5/50 (10%) 8/100 (8%)	3/50 (6%) Mean 8%	SD 2.83%		
*Lung: Alveolar/Bronchiolar Carcir		9/50 (18%)	7/50 (14%)			7/50 (14%)	2/50 (4%)			
Overall Incidence	Total	16/100 (16%)	Mean 16%	SD 2.83%	Total	9/100 (9%)	Mean 9%	SD 7.07%		
*Lung: Alveolar/Bronchiolar Carcir						11/50 (22%)	5/50 (10%)			
Overall Incidence	Total	33/100 (33%)	Mean 33%	SD 7.07%	Total	16/100 (16%)	Mean 16%	SD 8.49%		
*Lung: Hemangiosarcoma		2/50 (4%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 2.83%	Total	0/100 (0%)	Mean 0%	SD 0%		

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			Male			Female			
#Lymph Node, Mandibular: Mast Cell Tumor Malignant		0/50 (0%) 0/50 (0%)					0/50 (0%) 0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mediastinal: Mast Cell Tumor Malignant		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
#Lymph Node, Mesenteric: Hemangiosarcoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
#Mammary Gland: Carcinoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%	
#Mammary Gland: Carcinoma or Adenoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%	
#Mammary Gland: Fibroma, Fibroadenoma, Ca			0/50 (0%)			0/50 (0%)	1/50 (2%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%	

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			Male			Female				
#Mesentery: Hemangioma							0/50 (00/)			
Overall Incidence	Total	0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
#Mesentery: Hemangiosarcoma										
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%		
#Mesentery: Lipoma		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%		
Mesentery: Sarcoma										
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
Nose: Adenoma										
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%		
'Nose: Hemangiosarcoma		4/50 (200)	0/50 (001)			0/40 /00/1	0/50 (00/)			
Overall Incidence	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%		

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			Male			Female			
#Oral Cavity (Oral Mucos Papilloma Squamous o									
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Oral Cavity (Oral Mucos Squamous Cell Carcin	sa, Tongue, Phary								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Oral Cavity (Oral Mucos	sa, Tongue, Phary	ynx, Tooth, Gingiva): Squamous, or Papilloma 0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Oral Mucosa: Squamous Cell Carcin	oma	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
*Ovary: Choriocarcinoma									
Overall Incidence					Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Ovary: Cystadenocarcinoma						0/40 (0%)	0/50 (0%)		
a						0/49 (0%)	0/50 (0%)	25 <i>ani</i>	

 Overall Incidence
 Total
 0/99 (0%)
 Mean 0%
 SD 0%

*: Denominator is number of animals with tissues examined microscopically

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC	Toxicology Data Management System Tumor Incidence for Selected Control Animal Group Route: ORAL Vehicle: WATER	S	Page: 130 Report Date: 11/11/2014				
	Male		Female				
*Ovary: Cystadenoma							
Overall Incidence	Total	3/49 (6%) 4/99 (4.04%)	1/50 (2%) Mean 4.06%	SD 2.92%			
*Ovary: Granulosa Cell Tumor Benign							
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS		-/ /	- / / /				
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
'Ovary: Hemangioma		0/40 (0%)	0/50 (00/)				
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
'Ovary: Hemangiosarcoma							
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			
'Ovary: Luteoma							
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%			

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·			Male		Female				
*Ovary: Sarcoma									
Overall Incidence					Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Ovary: Tubulostromal Adenoma									
Overall Incidence					Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Ovary: Yolk Sac Carcinoma									
Overall Incidence					Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	
*Pancreas: Carcinoma									
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%	
*Pancreas: Carcinoma or Adenoma									
Overall Incidence	Total	0/49 (0%) 0/99 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%	
*Pituitary Gland: Pars Distali Adenoma		fied Site:							
Overall Incidence	Total	0/47 (0%) 0/97 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	4/50 (8%) 6/99 (6.06%)	2/49 (4%) Mean 6.04%	SD 2.77%	

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC				ogy Data Manageme ce for Selected Contr Route: ORAL Vehicle: WATER	ol Animal Groups		Page: 132 Report Da	te: 11/11/2014		
			Male			Female				
*Pituitary Gland: Pars Distalis Carcinoma or Adenoma	s or Unspeci	ified Site:								
Overall Incidence	Total	0/47 (0%) 0/97 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	4/50 (8%) 6/99 (6.06%)	2/49 (4%) Mean 6.04%	SD 2.77%		
Pituitary Gland: Pars Intermo Adenoma										
Overall Incidence	Total	0/47 (0%) 0/97 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/99 (0%)	0/49 (0%) Mean 0%	SD 0%		
Pituitary Gland: Pars Intermo Carcinoma or Adenoma		0/47 (0%)	0/50 (0%)			0/50 (0%)	0/49 (0%)			
Overall Incidence	Total	0/97 (0%)	Mean 0%	SD 0%	Total	0/99 (0%)	Mean 0%	SD 0%		
Salivary Glands: Adenoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/48 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%		
Salivary Glands: Carcinoma or Adenoma							0/40 (00/)			
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%		
Salivary Glands: Hemangiosarcoma			0/50 (001)			0/50 (227)	0/40 (2021)			
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/98 (0%)	0/48 (0%) Mean 0%	SD 0%		

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Toxico Tumor Incider	Page: 133 Report Date: 11/11/2014						
			Male			Female				
*Salivary Glands: Myxoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/48 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/98 (0%)	Mean 0%	SD 0%		
#Skeletal Muscle: Hemangiosarcoma		- ()								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%		
#Skeletal Muscle: Rhabdomyosarcoma Overall Incidence	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
		()				, ,				
#Skeletal Muscle: Rhabdomyosarcoma or Rha	bdomyoma	1/50 (2%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%		
#Skeletal Muscle: Sarcoma							0/50 (00/)			
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
#Skin: Basal Cell Carcinoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		

/ersion: Nov2014				Toxicology Data Management System Tumor Incidence for Selected Control Animal Groups Route: ORAL						
Contract/Lab: All Laborator	ries		I umor Inciden		ol Animal Groups		Report Da	ite: 11/11/2014		
Species: MICE										
Strain: B6C3F1	•			Vehicle: WATER						
ength of Study: CHRONI	C									
			Male				Female			
Skin:	_									
Basal Cell Carcinoma or	r Basosquamous	s Tumor (malignant or NC 0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
Skin:										
Basal Cell Carcinoma, B NOS), or Trichoepithelio	Basal Cell Adeno oma	ma, Basosquamous Tum	or (benign, malignar	nt or						
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
		0/00 (0/0)								
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
	oma, Carcinoma	0/100 (0%)	Mean 0%		Total	0/100 (0%)	Mean 0%	SD 0%		
∜Skin: Basal or Sq. Cell Carcin	oma, Carcinoma	0/100 (0%)	Mean 0%		Total	0/100 (0%) 0/50 (0%)	Mean 0%	SD 0%		
∜Skin: Basal or Sq. Cell Carcin	oma, Carcinoma q Papilloma, Ker Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0%		Total			SD 0%		
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence	ooma, Carcinoma q Papilloma, Ker Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0%	na, SD 0%	Total	0/50 (0%)	0/50 (0%)			
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin:	ooma, Carcinoma q Papilloma, Ker Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) oma, Myxosarcoma, or Fib	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% prous Histiocytoma	na, SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%			
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma,	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) oma, Myxosarcoma, or Fib 1/50 (2%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% prous Histiocytoma 1/50 (2%)	na, SD 0%	Total	0/50 (0%) 0/100 (0%) 2/50 (4%)	0/50 (0%) Mean 0% 4/50 (8%)	SD 0%		
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma,	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) oma, Myxosarcoma, or Fib	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2%	na, SD 0%	Total Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%			
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma, Overall Incidence	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) 0/100 (0%) 0/100 (2%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2%	na, SD 0% SD 0%	Total Total	0/50 (0%) 0/100 (0%) 2/50 (4%)	0/50 (0%) Mean 0% 4/50 (8%)	SD 0%		
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma, Overall Incidence	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) 0/100 (0%) 0/100 (2%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2%	na, SD 0% SD 0%	Total Total	0/50 (0%) 0/100 (0%) 2/50 (4%)	0/50 (0%) Mean 0% 4/50 (8%)	SD 0%		
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma, Overall Incidence Skin: Fibrosarcoma	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) 0/100 (2%) 0/50 (0%) 0/50 (0%) 0/100 (0%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2% 0/50 (0%) Mean 0%	na, SD 0% SD 0% SD 0%	Total Total Total	0/50 (0%) 0/100 (0%) 2/50 (4%) 6/100 (6%)	0/50 (0%) Mean 0% 4/50 (8%) Mean 6%	SD 0%		
#Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence #Skin: Fibroma, Fibrosarcoma, Overall Incidence #Skin: Fibrosarcoma	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) 0/100 (0%) 0/100 (2%) 0/50 (0%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2% 0/50 (0%) Mean 0%	na, SD 0% SD 0%	Total Total Total	0/50 (0%) 0/100 (0%) 2/50 (4%) 6/100 (6%) 0/50 (0%)	0/50 (0%) Mean 0% 4/50 (8%) Mean 6% 0/50 (0%)	SD 0% SD 2.83%		
Skin: Basal or Sq. Cell Carcin Adenoma, Papilloma, So Overall Incidence Skin: Fibroma, Fibrosarcoma, Overall Incidence Skin: Fibrosarcoma Overall Incidence	ooma, Carcinoma q Papilloma, Ker Total , Sarcoma, Myxo Total Total	0/100 (0%) a, Basosq. Tumor (M or B) atoacanthoma, Trichoepi 0/50 (0%) 0/100 (0%) 0/100 (2%) 0/50 (0%) 0/50 (0%) 0/100 (0%)	Mean 0%), Basal Cell Adenom thelioma 0/50 (0%) Mean 0% brous Histiocytoma 1/50 (2%) Mean 2% 0/50 (0%) Mean 0%	na, SD 0% SD 0% SD 0%	Total Total Total	0/50 (0%) 0/100 (0%) 2/50 (4%) 6/100 (6%) 0/50 (0%)	0/50 (0%) Mean 0% 4/50 (8%) Mean 6% 0/50 (0%)	SD 0% SD 2.83%		

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			Male			Female				
#Skin: Fibrous Histiocytoma		1/50 (2%)			0/50 (0%)	3/50 (6%)				
Overall Incidence	Total	2/100 (2%)	Mean 2%	SD 0%	Total	3/100 (3%)	Mean 3%	SD 4.24%		
#Skin: Granular Cell Tumor Benign	i	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
¥Skin: Hemangioma Overall Incidence	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
Skin: Hemangiosarcoma Overall Incidence	Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%	Total	2/50 (4%) 3/100 (3%)	1/50 (2%) Mean 3%	SD 1.41%		
Skin: Keratoacanthoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
έSkin: Lipoma		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%		

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: ORAL Vehicle: WATER						Page: 136 Report Date: 11/11/2014		
			Male				Female		
#Skin: Liposarcoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Skin: Mast Cell Tumor Benign		0/50 (0%)	0/50 (0%)			1/50 (2%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/30 (2%)	0/50 (0%) Mean 1%	SD 1.41%	
#Skin: Mast Cell Tumor Malignant Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Skin: Melanoma Benign Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Skin: Melanoma Malignant Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Skin: Neural Crest Tumor	10(8)	0/100 (0%)	0/50 (0%)	0%	Total	0/100 (0%)	0/50 (0%)	U%	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Page: 137 Report Da	te: 11/11/2014				
			Male				Female	
#Skin: Neurofibroma or Schwanno	oma benign							
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Skin: Neurofibrosarcoma or Sch		nalignant or NOS) 0/50 (0%)	0/50 (0%)			0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	3/100 (3%)	3/50 (6%) Mean 3%	SD 4.24%
#Skin: Neurofibrosarcoma, Neuro Overall Incidence		Schwannoma (benign, ma 0/50 (0%) 0/100 (0%)		SD 0%	Total	0/50 (0%) 3/100 (3%)	3/50 (6%) Mean 3%	SD 4.24%
#Skin: Osteosarcoma Overall Incidence		. ,				. ,		
		·····				·····		30 0%
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	2/50 (4%) 3/100 (3%)	1/50 (2%) Mean 3%	SD 1.41%
#Skin: Schwannoma Benign		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%

Version: Nov2014				Toxicology Data Management System Tumor Incidence for Selected Control Animal Groups						
Contract/Lab: All Laboratories			l umor Inciden		ol Animal Groups		Report Date: 11/11/2014			
Species: MICE				Route: ORAL						
Strain: B6C3F1				Vehicle: WATER						
Length of Study: CHRONIC										
			Male				Female			
#Skin:										
Schwannoma Malignant		0/50 (00/)	0/50 (00/)			0/50 (00()	0/50 (00/)			
o	-	0/50 (0%)	0/50 (0%)	00.00/	T ()	0/50 (0%)	3/50 (6%)	00 40494		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	3/100 (3%)	Mean 3%	SD 4.24%		
#Skin:										
Squamous Cell Carcinoma, or Carcinoma	Basal Cell C	arcinoma, Basosquamou	us Tumor (malignant	or NOS),						
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
#Skin: Squamous Cell Papilloma										
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		
#Skin:										
Squamous Cell Papilloma o	r Papilloma	0/50 (00/)				0/50 (00()	0/50 (00/)			
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%)	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
	Total		Mean 0%		Total	()	wean 0%	50 0%		
#Skin:										
Squamous Cell Papilloma, F	Papilloma, So	quamous Cell Carcinoma 0/50 (0%)	or Keratoacanthoma	1		0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
		()								
#Skin: Squamous Cell Papilloma, F	Papilloma, or	r Keratoacanthoma								
· · · ·	- /	0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%		

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Page: 139 Report Date: 11/11/2014					
			Male				Female	
#Spinal Cord: Hemangiosarcoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
*Spleen: Hemangiosarcoma		1/46 (2%)	2/50 (4%)			1/46 (2%)	0/49 (0%)	
Overall Incidence	Total	3/96 (3.12%)	Mean 3.09%	SD 1.29%	Total	1/95 (1.05%)	Mean 1.09%	SD 1.54%
*Spleen: Mast Cell Tumor Malignant Overall Incidence	Total	0/46 (0%) 0/96 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/46 (0%) 0/95 (0%)	0/49 (0%) Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma o	or Papillom	a Squamous 0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%
#Stomach, Forestomach: Squamous Cell Papilloma		0/50 (0%)	0/50 (0%)			0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	1/100 (1%)	Mean 1%	SD 1.41%

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC				Page: 140 Report Date: 11/11/2014					
			Male		Female				
#Stomach, Glandular: Adenoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
#Stomach, Glandular: Carcinoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%	
#Stomach, Glandular: Carcinoma or Adenoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	
Testes: Adenoma Overall Incidence	Total	0/50 (0%) 1/100 (1%)	1/50 (2%) Mean 1%	SD 1.41%					
Testes: Hemangioma		0/50 (0%)	0/50 (0%)						
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%					
Thymus: Neoplasm NOS		0/41 (0%)	0/45 (0%)			0/45 (0%)	0/50 (0%)		
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/95 (0%)	Mean 0%	SD 0%	

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Toxicol Tumor Inciden		Page: 141 Report Date: 11/11/2014			
			Male				Female	
*Thymus: Thymoma Benign		0/41 (0%)	0/45 (0%)			0/45 (0%)	0/50 (0%)	
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/95 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma Malignant		0/41 (0%)	0/45 (0%)			0/45 (0%)	0/50 (0%)	
Overall Incidence	Total	0/86 (0%)	Mean 0%	SD 0%	Total	0/95 (0%)	Mean 0%	SD 0%
*Thymus: Thymoma: Benign, Maligna Overall Incidence		0/41 (0%) 0/86 (0%)	0/45 (0%) Mean 0%	SD 0%	Total	0/45 (0%) 0/95 (0%)	0/50 (0%) Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Adenoma Overall Incidence		0/49 (0%)				0/48 (0%)	0/49 (0%)	
	Total	0/99 (0%)		SD 0%	Total	0/97 (0%)	Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Carcinoma		0/49 (0%)	0/50 (0%)			0/48 (0%)	0/49 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/97 (0%)	Mean 0%	SD 0%
*Thyroid Gland: C-Cell: Carcinoma or Adenoma		0/49 (0%)	0/50 (0%)			0/48 (0%)	0/49 (0%)	
Overall Incidence	Total	0/99 (0%)	Mean 0%	SD 0%	Total	0/97 (0%)	Mean 0%	SD 0%

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC			Page: 142 Report Dat	e: 11/11/2014				
			Male				Female	
*Thyroid Gland: Follicular Cel Adenoma	l:							
Overall Incidence	Total	1/49 (2%) 2/99 (2.02%)	1/50 (2%) Mean 2.02%	SD 0.03%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%
Thyroid Gland: Follicular Cel Carcinoma or Adenoma								
Overall Incidence	Total	1/49 (2%) 2/99 (2.02%)	1/50 (2%) Mean 2.02%	SD 0.03%	Total	0/48 (0%) 0/97 (0%)	0/49 (0%) Mean 0%	SD 0%
fTissue NOS: Fibrosarcoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
Tissue NOS: Hemangiosarcoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
Tongue: Squamous Cell Carcinoma								
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
Tongue: Squamous Cell Papilloma			0/50 (00/)			0/50 (000)	0/50 (00/)	
Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%

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: ORAL Vehicle: WATER						Page: 143 Report Date: 11/11/2014			
			Male				Female				
#Tooth: Odontoma Overall Incidence	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%			
tUrethra:						. ,					
Hemangiosarcoma		0/50 (0%)	1/50 (2%)			0/50 (0%)	0/50 (0%)				
Overall Incidence	Total	1/100 (1%)	Mean 1%	SD 1.41%	Total	0/100 (0%)	Mean 0%	SD 0%			
Urinary Bladder: Hemangiosarcoma		0/45 (0%)	0/50 (00/)			0/44 (0%)	0/50 (0%)				
Overall Incidence	Total	0/45 (0%) 0/95 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/44 (0%) 0/94 (0%)	0/50 (0%) Mean 0%	SD 0%			
Uterus: Adenoma											
Overall Incidence					Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%			
Uterus: Carcinoma											
Overall Incidence					Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%			
Uterus: Hemangioma											
Overall Incidence					Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%			

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE	Toxicology Data Management Syst Tumor Incidence for Selected Control Anima Route: ORAL	Page: 144 Report Date: 11/11/2014			
Strain: B6C3F1	Vehicle: WATER				
Length of Study: CHRONIC					
	Male			Female	
#Uterus:					
Hemangiosarcoma			0/50 (0%)	1/50 (2%)	
Overall Incidence		Total	1/100 (1%)	Mean 1%	SD 1.41%
#Uterus:					
Leiomyoma			0/50 (0%)	0/50 (0%)	
Overall Incidence		Total	0/100 (0%)	Mean 0%	SD 0%
#Uterus:					
Polyp Stromal			0/50 (40/)	4/50 (00()	
Overall Incidence		Total	2/50 (4%) 6/100 (6%)	4/50 (8%) Mean 6%	SD 2.83%
#Uterus:					
Sarcoma			0/50 (00/)	0/50 (00/)	
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%
#Uterus:					
Sarcoma Stromal					
Overall Insidence		Tatal	0/50 (0%)	0/50 (0%)	
Overall Incidence		Total	0/100 (0%)	Mean 0%	SD 0%
#Uterus:					
Sarcoma Stromal or Polyp Stromal					
			2/50 (4%)	4/50 (8%)	
Overall Incidence		Total	6/100 (6%)	Mean 6%	SD 2.83%

Version: Nov2014 Contract/Lab: All Laboratories Species: MICE Strain: B6C3F1 Length of Study: CHRONIC				ogy Data Managemer ce for Selected Contro Route: ORAL Vehicle: WATER	Page: 145 Report Date: 11/11/2014			
			Male				Female	
#Zymbal's Gland: Carcinoma		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%
#Zymbal's Gland: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)			0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	0/100 (0%)	Mean 0%	SD 0%	Total	0/100 (0%)	Mean 0%	SD 0%