

TDMS No. 97003 - 08
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 08/21/2007
 Time Report Requested: 13:25:49
 First Dose M/F: 06/25/02 / 06/24/02
 Lab: BAT

DAY ON TEST	0																								
	7																								
DAY ON TEST	3																								
	0																								
B6C3F1 MICE FEMALE	0																								
	0																								
	3																								
	5																								
	1																								
6 MG/KG	0																								
	0																								
	3																								
	5																								
	1																								
ANIMAL ID	0																								
ANIMAL ID	0																								
ANIMAL ID	3																								
ANIMAL ID	5																								
ANIMAL ID	1																								
	females (cont...)																								

Pituitary Gland	+																								
Angiectasis																									
Cyst																									
Pars Distalis, Hyperplasia	3																								
Thyroid Gland	+																								
Infiltration Cellular, Mononuclear Cell	1																								
Follicular Cell, Hyperplasia																									

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+																								
Inflammation	2																								
Ovary	+																								
Angiectasis																									
Cyst	2																								
Uterus	+																								
Inflammation, Suppurative																									
Endometrium, Hyperplasia, Cystic	2																								

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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DAY ON TEST	ANIMAL ID																								females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	7	5	7	7	6	7	7	0	0
3	2	3	2	1	2	3	2	3	2	7	7	3	3	3	3	2	2	7	2	3	2	3	2	3	0
0	9	0	9	8	9	0	7	0	9	5	5	0	0	1	1	9	9	8	9	0	7	0	9	0	0
B6C3F1 MICE FEMALE																									
6 MG/KG																									
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy, Focal																									
Myelofibrosis		2	1	1		1		1		1	1		2	1		2		1		1	3	1			
Myeloid Cell, Hyperplasia					2																				
Lymph Node																									
Hyperplasia, Plasma Cell																									+
Lumbar, Congestion																									3
Lumbar, Hyperplasia, Histiocytic																									
Mediastinal, Congestion																									
Mediastinal, Hyperplasia, Histiocytic																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid					3									3											
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion, Chronic					3																				
Hyperplasia, Histiocytic																									
Hyperplasia, Lymphoid																									
Hyperplasia, Plasma Cell					2																				2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation					2	3		2			2		2		2	3		3			3				
Hyperplasia, Lymphoid										2	2	3	2							2	2				
Pigmentation							2	1		1									1		1				
Lymphoid Follicle, Atrophy																									

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	DAY ON TEST																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	5	7	7	6	7	7	7	
	3	2	3	2	1	2	3	2	3	2	7	7	3	3	3	3	2	2	7	2	3	2	3	2	3
	0	9	0	9	8	9	0	7	0	9	5	5	0	0	1	1	9	9	8	9	0	7	0	9	0
B6C3F1 MICE FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 MG/KG	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females
(cont...)

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																								
Neuron, Necrosis																								

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																								
Inflammation										2														
Pigmentation																								
Alveolar Epithelium, Hyperplasia										2														
Alveolus, Infiltration Cellular, Histiocyte										1														

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glands, Cyst																								

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	7	5	7	7	6	7	7	7	0	
3	2	3	2	1	2	3	2	3	2	7	7	3	3	3	3	2	2	7	2	3	2	3	2	3	0	
0	9	0	9	8	9	0	7	0	9	5	5	0	0	1	1	9	9	8	9	0	7	0	9	0	0	

B6C3F1 MICE FEMALE 6 MG/KG		ANIMAL ID																									females (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Infiltration Cellular, Mononuclear Cell Epithelium, Hyperplasia		1	2	1	2		1	1		1	1	1		1	1	1	1		1	1	1	1	1	1	1		

URINARY SYSTEM

Kidney	+ +																									
Degeneration																										2
Infarct																										2
Metaplasia, Osseous Mineralization																										2
Nephropathy	1	1		1				1		1		1	1					1				1		1		
Urinary Bladder	+ +																									
Infiltration Cellular, Mononuclear Cell	2	2		1	2	1	1		1	1	2	2		1	2	1	1	2	1	1	2	2	1	1	1	

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DAY ON TEST	0 0																							
	6 7 7 7 7 7 7 7 7 6 7 7 7 5 7 6 7 4 7 7 7 4 5 7 5																							
B6C3F1 MICE FEMALE 6 MG/KG	7 2 3 0 3 3 3 2 3 5 3 2 3 9 3 2 3 9 2 3 2 3 7 3 0																							
	4 9 0 1 1 0 0 9 0 4 0 9 1 6 0 8 0 4 9 0 9 6 2 0 2																							
ANIMAL ID	0 0																							
	0 0																							
* TOTALS	3 4																							
	7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 0																							
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								

ALIMENTARY SYSTEM

Esophagus	+ +																								50	
Gallbladder Inflammation	+ +																								50	2 1.0
Intestine Large, Cecum	+ +																								50	
Intestine Large, Colon	+ +																								50	
Intestine Large, Rectum	+ +																								50	
Intestine Small, Duodenum	+ +																								50	
Intestine Small, Ileum	+ +																								50	
Intestine Small, Jejunum	+ +																								50	
Liver	+ +																								50	
Clear Cell Focus	X																									8
Eosinophilic Focus	X																									4
Fatty Change, Diffuse	X																									4 2.8
Hematopoietic Cell Proliferation	1 1																									5 1.0
Inflammation	1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1																								41	1.1
Mixed Cell Focus	X X																									7
Necrosis	2																									4 2.0

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	7	7	7	7	7	7	7	7	6	7	7	7	5	7	6	7	4	7	7	7	4	5	7	5	
	7	2	3	0	3	3	3	2	3	5	3	2	3	9	3	2	3	9	2	3	2	3	7	3	0	
	4	9	0	1	1	0	0	9	0	4	0	9	1	6	0	8	0	4	9	0	9	6	2	0	2	
B6C3F1 MICE FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																										1 3.0
Cyst														1									1			2 1.0
Pars Distalis, Hyperplasia				1											3						3					12 2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell																										3 1.3
Follicular Cell, Hyperplasia											4															1 4.0

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation				1						1													1	1			7 1.1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis														3												1 3.0	
Cyst	3		2		1								2		3	2							4			13 2.2	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Suppurative																								4		1 4.0	
Endometrium, Hyperplasia, Cystic	3	3	3	3	3	3	3	4	2	2	1	1	3		3	4	3	1	3	3	3	2		3	2	48 2.9	

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DAY ON TEST	0 0																								
	6 7 7 7 7 7 7 7 7 6 7 7 7 5 7 6 7 4 7 7 7 4 5 7 5																								
ANIMAL ID	7 2 3 0 3 3 3 2 3 5 3 2 3 9 3 2 3 9 2 3 2 3 7 3 0																								
	4 9 0 1 1 0 0 9 0 4 0 9 1 6 0 8 0 4 9 0 9 6 2 0 2																								
B6C3F1 MICE FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																								* TOTALS	

Red Pulp, Atrophy																								2	3 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4											3		2	3		2		4			2	4	4	2
Hyperplasia, Lymphoid																								2 2	17 2.8
																									4 2.3

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
																								50	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Site Of Application - Dermis, Inflammation, Chronic Active		1		3	2					1			2	2	1		1	1		1	1	1	1	2	1
Site Of Application - Epidermis, Hyperplasia	1	1	2	4	3	1	2	1	1	1	1	1	2	1	2	2	1	1	1	2	1	1	2	2	2
Site Of Application - Epidermis, Ulcer																								3 3.0	
Subcutaneous Tissue, Inflammation, Granulomatous																								1 3.0	
Subcutaneous Tissue, Necrosis, Fatty																								1 3.0	
Subcutaneous Tissue, Pigmentation																								1	1 1.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteopetrosis	3																								
																								50	
																									1 3.0
Skeletal Muscle																								+	1

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	6	7	7	7	7	7	7	7	7	7	6	7	7	7	5	7	6	7	4	7	7	7	4	5	7
7	2	3	0	3	3	3	2	3	5	3	2	3	9	3	2	3	9	2	3	2	3	7	3	0	
4	9	0	1	1	0	0	9	0	4	0	9	1	6	0	8	0	4	9	0	9	6	2	0	2	
B6C3F1 MICE FEMALE 6 MG/KG	0																								
	0																								
	3																								
	7																								
	6																								
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																								* TOTALS	

Infiltration Cellular, Mononuclear Cell	1	1	1		1	1		2	2	1	1	1		1	1	1	2	1				1	1		36 1.1	
Epithelium, Hyperplasia																	1								2	3 1.7

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Degeneration																										1 2.0	
Infarct										2																4 2.0	
Metaplasia, Osseous															2											1 2.0	
Mineralization			1																							3 1.0	
Nephropathy			1					1	1					1	2	1		1					2	1		18 1.1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infiltration Cellular, Mononuclear Cell			1		1		2	2	1				1		1	1	1	1		1	1	2	3	1	1	2	38 1.4

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
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