TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1

### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture CAS Number: THUJONEMIXAB Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

		F2_M3	
C Number:	C99037B		
Lock Date:	11/20/2006		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC	25018 DACC	
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	2.2.0		

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI			
B6C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Dosing Accident		1			
Moribund Sacrifice	3		4	4	
Natural Death	7	7	5	9	36
Survivors					
Natural Death					1
Terminal Sacrifice	40	42	41	37	13
Animals Examined Microscopically	50	50	50	50	50
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(49)	(50)
Inflammation, Acute		1 (2%)			
Ulcer		1 (2%)			
Submucosa, Edema		1 (2%)			
Intestine Small, Duodenum	(48)	(46)	(50)	(46)	(48)
Ulcer				1 (2%)	
Intestine Small, Ileum	(50)	(48)	(48)	(47)	(49)
Epithelium, Hyperplasia		1 (2%)			
Intestine Small, Jejunum	(48)	(46)	(49)	(46)	(43)
Inflammation, Chronic Active				1 (2%)	
Liver	(50)	(50)	(50)	(50)	(50)
Basophilic Focus	2 (4%)	1 (2%)		5 (10%)	2 (4%)
Clear Cell Focus	17 (34%)	14 (28%)	13 (26%)	21 (42%)	6 (12%)
Cyst		1 (2%)			
Eosinophilic Focus	2 (4%)	5 (10%)	5 (10%)	5 (10%)	
Eosinophilic Focus, Multiple			1 (2%)		
Hematopoietic Cell Proliferation	1 (2%)			1 (2%)	
Hemorrhage				1 (2%)	4 (00)
Inflammation, Chronic	- (		0 (001)	0 (221)	1 (2%)
Inflammation, Chronic Active	2 (4%)	1 (2%)	3 (6%)	3 (6%)	1 (2%)
Mixed Cell Focus	12 (24%)	7 (14%)	11 (22%)	7 (14%)	3 (6%)
Necrosis, Focal	4 (8%)		5 (10%)	3 (6%)	3 (6%)

a - Number of animals examined microscopically at site and number of animals with lesion

#### Test Type: CHRONIC

#### Route: GAVAGE

Species/Strain: MICE/B6C3F1

### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

B6C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
Necrosis, Diffuse	1 (2%)			1 (2%)	1 (2%)	
Tension Lipidosis			1 (2%)			
Centrilobular, Necrosis		2 (4%)	1 (2%)			
Hepatocyte, Hypertrophy					1 (2%)	
Hepatocyte, Vacuolization Cytoplasmic	23 (46%)	13 (26%)	20 (40%)	17 (34%)	5 (10%)	
Kupffer Cell, Hyperplasia	( )	( , , , , , , , , , , , , , , , , , , ,	1 (2%)			
Kupffer Cell, Pigmentation				1 (2%)		
Mesentery	(4)	(4)	(3)	(7)	(3)	
Fat, Necrosis	3 (75%)	3 (75%)	2 (67%)	6 (86%)	3 (100%)	
Pancreas	(50)	(50)	(50)	(50)	(50)	
Atrophy		3 (6%)	1 (2%)	2 (4%)	1 (2%)	
Basophilic Focus			2 (4%)			
Acinus, Cytoplasmic Alteration	2 (4%)	6 (12%)	3 (6%)	1 (2%)		
Acinus, Hyperplasia, Focal	1 (2%)		1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)	(50)	
Infiltration Cellular, Lymphocyte	3 (6%)	10 (20%)	4 (8%)	3 (6%)	1 (2%)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)	
Diverticulum	( ),	1 (2%)				
Inflammation, Chronic	4 (8%)	5 (10%)	3 (6%)	3 (6%)	2 (4%)	
Ulcer	1 (2%)	1 (2%)				
Epithelium, Hyperplasia	7 (14%)	7 (14%)	8 (16%)	3 (6%)	5 (10%)	
Stomach, Glandular	(50)	(50)	(50)	(49)	(50)	
Cyst	1 (2%)	3 (6%)	1 (2%)			
Erosion	2 (4%)	1 (2%)	1 (2%)	1 (2%)		
Epithelium, Hyperplasia	1 (2%)		1 (2%)		1 (2%)	
Epithelium, Metaplasia, Squamous				1 (2%)		
Tongue	(1)	(0)	(0)	(1)	(0)	
CARDIOVASCULAR SYSTEM					·	
Heart	(50)	(50)	(50)	(50)	(50)	
Cardiomyopathy		2 (4%)		1 (2%)		
Inflammation, Chronic Active				1 (2%)		
Mineralization	1 (2%)			. ,		
Thrombosis	1 (2%)					

# Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

36C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
NDOCRINE SYSTEM						
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)	
Accessory Adrenal Cortical Nodule	4 (8%)	5 (10%)	7 (14%)	2 (4%)	4 (8%)	
Cyst			. ( , . ,	- ( )	1 (2%)	
Degeneration, Fatty		1 (2%)			1 (2%)	
Hyperplasia, Focal	5 (10%)	7 (14%)	5 (10%)	2 (4%)	1 (2%)	
Hypertrophy, Focal	16 (32%)	20 (40%)	20 (40%)	14 (28%)	2 (4%)	
Subcapsular, Hyperplasia	11 (22%)	7 (14%)	4 (8%)	7 (14%)	4 (8%)	
Adrenal Medulla	(49)	(49)	(50)	(50)	(50)	
Hyperplasia	(10)	2 (4%)	1 (2%)	(00)	(00)	
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)	
Atrophy		(00)	(00)	1 (2%)	(00)	
Hyperplasia	12 (24%)	8 (16%)	12 (24%)	10 (20%)	3 (6%)	
Parathyroid Gland	(43)	(48)	(47)	(46)	(48)	
Cyst	(10)	(10)	()	4 (9%)	(10)	
Pituitary Gland	(48)	(50)	(48)	(49)	(49)	
Pars Distalis, Cyst	4 (8%)	3 (6%)	2 (4%)	2 (4%)	(10)	
Pars Distalis, Hyperplasia, Focal	1 (2%)	2 (4%)	1 (2%)	2(170)		
Rathke's Cleft, Dilatation	( ( ))	2 (170)	( ( ) )		2 (4%)	
Thyroid Gland	(49)	(50)	(50)	(49)	(50)	
Follicle, Cyst	(10)	(00)	(00)	1 (2%)	(88)	
Follicle, Degeneration, Focal	13 (27%)	10 (20%)	11 (22%)	16 (33%)	6 (12%)	
Follicular Cell, Hyperplasia	10 (2170)	1 (2%)	11 (22 /0)		0 (1270)	
		1 (270)				
GENERAL BODY SYSTEM						
Tissue NOS	(1)	(1)	(1)	(1)	(0)	
GENITAL SYSTEM					·	
Epididymis	(50)	(50)	(50)	(50)	(50)	
Granuloma Sperm		2 (4%)				

### Test Type: CHRONIC

#### Route: GAVAGE

Species/Strain: MICE/B6C3F1

### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

B6C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
Inflammation, Chronic				1 (2%)		
Spermatocele		1 (2%)				
Penis	(1)	(0)	(0)	(1)	(0)	
Cyst		. ,		1 (100%)		
Preputial Gland	(49)	(49)	(50)	(50)	(50)	
Cyst	12 (24%)	15 (31%)	7 (14%)	17 (34%)	3 (6%)	
Inflammation, Chronic	13 (27%)	11 (22%)	10 (20%)	10 (20%)	5 (10%)	
Prostate	(49)	(50)	(50)	(50)	(50)	
Infiltration Cellular, Lymphocyte		( ),	1 (2%)			
Seminal Vesicle	(50)	(50)	(50)	(50)	(50)	
Testes	(50)	(50)	(50)	(50)	(50)	
Angiectasis		1 (2%)				
Germinal Epithelium, Atrophy		4 (8%)	2 (4%)	1 (2%)		
Interstitial Cell, Hyperplasia			1 (2%)			
HEMATOPOIETIC SYSTEM Bone Marrow	(50)	(50)	(50)	(50)	(50)	
		(50)	(50)	. ,	(50)	
Hyperplasia	23 (46%)	25 (50%)	23 (46%)	21 (42%)	7 (14%)	
Lymph Node	(3)	(0)	(1)	(1)	(0)	
Lymph Node, Mandibular	(47)	(49)	(46)	(47)	(44)	
Atrophy	1 (2%)	1 (2%)	1 (2%)	4 (00()		
Hemorrhage		4 (00/)	0 (200)()	1 (2%)	1 (20()	
Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell	5 (11%)	1 (2%)	9 (20%)	5 (11%)	1 (2%)	
Pigmentation	1 (2%)	2(40/)		1 (20/)		
5	(40)	2 (4%) (48)	(47)	1 (2%)	(50)	
Lymph Node, Mesenteric	(49) 1 (2%)	(48) 2 (4%)	(47) 3 (6%)	(47)	(50)	
Angiectasis Atrophy	1 (2%)	2 (4%) 1 (2%)	3 (6%) 1 (2%)	3 (6%)		
Ectasia	1 (276)		1 (270)	3 (0%) 1 (2%)		
Hematopoietic Cell Proliferation	2 (4%)	1 (2%) 2 (4%)		2 (4%)		
Hemorrhage	2 (4%) 6 (12%)	2 (4%) 4 (8%)	6 (13%)	2 (4%)	1 (2%)	
	. ,	4 (8%) 5 (10%)	4 (9%)	2 (4%) 5 (11%)	3 (6%)	
Hyperplasia Lymphoid						
Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell	2 (4%)	5 (1078)	+ (070)	1 (2%)	0 (070)	

# Test Type: CHRONIC

#### Route: GAVAGE

Species/Strain: MICE/B6C3F1

### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

B6C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
Spleen	(50)	(50)	(50)	(49)	(50)	
Accessory Spleen		1 (2%)				
Angiectasis		1 (2%)	/	/		
Hematopoietic Cell Proliferation Pigmentation	20 (40%)	26 (52%)	24 (48%)	25 (51%)	9 (18%) 1 (2%)	
Lymphoid Follicle, Atrophy	2 (4%)	1 (2%)	3 (6%)	1 (2%)		
Lymphoid Follicle, Hyperplasia	1 (2%)	5 (10%)	5 (10%)	3 (6%)	1 (2%)	
Thymus	(44)	(43)	(44)	(40)	(49)	
Atrophy	3 (7%)	8 (19%)	4 (9%)	6 (15%)	2 (4%)	
Cyst	1 (2%)	2 (5%)	1 (2%)	4 (10%)		
Hyperplasia, Lymphoid	1 (2%)	1 (2%)		1 (3%)		
INTEGUMENTARY SYSTEM						
Skin	(50)	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion		2 (4%)				
Edema		1 (2%)	1 (2%)	2 (4%)		
Fibrosis			1 (2%)			
Inflammation, Chronic		- ( ( ) )	1 (2%)	- ( ( )		
Ulcer		2 (4%)	• ( ( • • • )	2 (4%)		
Epidermis, Hyperplasia			2 (4%)	1 (2%)		
MUSCULOSKELETAL SYSTEM						
Bone	(50)	(50)	(50)	(49)	(50)	
Hyperostosis	1 (2%)	1 (2%)	()	( )	()	
Cranium, Osteopetrosis	1 (2%)	1 (2%)		2 (4%)		
Skeletal Muscle	(2)	(1)	(3)	(1)	(0)	
NERVOUS SYSTEM						
Brain	(50)	(50)	(50)	(50)	(50)	
Necrosis				1 (2%)		
Pigmentation					1 (2%)	

Route: GAVAGE

### Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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36C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
RESPIRATORY SYSTEM						
Lung	(50)	(50)	(50)	(50)	(50)	
Foreign Body			1 (2%)		1 (2%)	
Hemorrhage	2 (4%)	1 (2%)	1 (2%)		5 (10%)	
Infiltration Cellular, Histiocyte		1 (2%)	1 (2%)	1 (2%)		
Inflammation, Chronic Active		1 (2%)				
Metaplasia, Osseous		1 (2%)	1 (2%)		1 (2%)	
Thrombosis		. /	. /	2 (4%)	· · ·	
Alveolar Epithelium, Hyperplasia	3 (6%)	1 (2%)	5 (10%)	4 (8%)		
Nose	(50)	(50)	(50)	(50)	(50)	
Foreign Body		2 (4%)	1 (2%)	2 (4%)	· · /	
Inflammation, Chronic	5 (10%)	3 (6%)	4 (8%)	3 (6%)	2 (4%)	
Respiratory Epithelium, Hyperplasia	1 (2%)	- ()	(/	- ()		
SPECIAL SENSES SYSTEM						
Eye	(50)	(50)	(50)	(50)	(50)	
Atrophy	1 (2%)					
Cataract		1 (2%)				
Inflammation, Chronic		3 (6%)	2 (4%)		1 (2%)	
Cornea, Hyperplasia		2 (4%)	1 (2%)			
Cornea, Ulcer		· · ·			1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)	(49)	
Atrophy		. /	. /	1 (2%)		
Hyperplasia, Focal	1 (2%)	4 (8%)		2 (4%)		
JRINARY SYSTEM						
	(50)		(50)	(50)	(50)	
Kidney	(50)	(50)	(50)	(50)	(50)	
Cyst	11 (22%)	15 (30%)	9 (18%)	9 (18%)	1 (2%)	
Hydronephrosis	0 (49()	1 (2%)	0 (100()	E (400()	1 (2%)	
Infarct	2 (4%)	3 (6%)	6 (12%)	5 (10%)	1 (2%)	

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI			
B6C3F1 MICE MALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Infiltration Cellular, Lymphocyte	1 (2%)	6 (12%)	5 (10%)	5 (10%)	1 (2%)
Metaplasia, Osseous	2 (4%)		5 (10%)	6 (12%)	1 (2%)
Necrosis			1 (2%)		
Nephropathy	40 (80%)	41 (82%)	38 (76%)	38 (76%)	16 (32%)
Artery, Inflammation, Chronic Active				1 (2%)	
Papilla, Necrosis					1 (2%)
Renal Tubule, Dilatation, Focal					1 (2%)
Renal Tubule, Hyperplasia					1 (2%)
Renal Tubule, Pigmentation	1 (2%)	3 (6%)		1 (2%)	
Urethra	(0)	(1)	(0)	(0)	(0)
Hemorrhage		1 (100%)			( )
Inflammation, Acute		1 (100%)			
Urinary Bladder	(50)	(50)	(50)	(50)	(50)
Dilatation	( )	1 (2%)	. /	1 (2%)	× /
Infiltration Cellular, Lymphocyte	2 (4%)			· · /	
Transitional Epithelium, Hyperplasia	()				1 (2%)

\*\*\* END OF MALE \*\*\*

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI			
B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Accidently Killed	2				1
Dosing Accident		6			4
Moribund Sacrifice	4	4	2	3	8
Natural Death	7	6	8	6	37
Survivors					
Natural Death			1		
Terminal Sacrifice	37	33	39	41	
Animals Examined Microscopically	50	49	50	50	50
ALIMENTARY SYSTEM Esophagus Inflammation, Acute	(50)	(48) 6 (13%)	(49)	(50)	(50) 4 (8%)
Ulcer		4 (8%)			2 (4%)
Submucosa, Edema			1 (2%)		1 (2%)
Gallbladder	(43)	(39)	(43)	(46)	(46)
Inflammation, Acute	1 (2%)	(00)	(10)	(10)	(10)
Pigmentation				2 (4%)	
Epithelium, Cytoplasmic Alteration	1 (2%)			_ ( ,	
Intestine Large, Cecum Edema	(48)	(46)	(46)	(49) 2 (4%)	(49)
Intestine Small, Duodenum Diverticulum	(46)	(44)	(45)	(46) 1 (2%)	(48)
Intestine Small, Ileum Epithelium, Hyperplasia	(48)	(47)	(45)	(49) 1 (2%)	(48)
Intestine Small, Jejunum	(47)	(47)	(45)	(48)	(47)
Hyperplasia, Lymphoid	1 (2%)			1 (2%)	
Epithelium, Hyperplasia	1 (2%)	(40)	(10)		(50)
Liver	(50)	(49)	(49)	(50)	(50)
Angiectasis	1 (2%)	0 ( 10( )	1 (2%)	4 (00)	
Basophilic Focus	1 (2%)	2 (4%)	4 (00()	4 (8%)	
Clear Cell Focus	3 (6%)	2 (4%)	4 (8%)	2 (4%)	

# Test Type: CHRONIC

#### Route: GAVAGE

Species/Strain: MICE/B6C3F1

### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
	4 (20()					
Cyst	1 (2%)	2 (00()	2 (00()	4 (00()		
Eosinophilic Focus	3 (6%)	3 (6%)	3 (6%)	4 (8%)		
Hematopoietic Cell Proliferation	3 (6%)	3 (6%)	3 (6%)	2 (4%)		
Infiltration Cellular, Lymphocyte	2 (4%)	1 (2%)	- ( ( )	4 (8%)		
Inflammation, Chronic Active	4 (8%)	3 (6%)	2 (4%)	7 (14%)		
Mixed Cell Focus	1 (2%)	5 (10%)		5 (10%)		
Necrosis, Focal	2 (4%)	6 (12%)	3 (6%)		2 (4%)	
Necrosis, Diffuse		1 (2%)		1 (2%)		
Tension Lipidosis	1 (2%)	1 (2%)	2 (4%)	1 (2%)		
Centrilobular, Necrosis		1 (2%)	2 (4%)			
Hepatocyte, Hyperplasia, Focal			1 (2%)			
Hepatocyte, Vacuolization Cytoplasmic	7 (14%)	3 (6%)	2 (4%)	2 (4%)		
Kupffer Cell, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	1 (2%)		
Mesentery	(10)	(6)	(5)	(6)	(0)	
Necrosis	1 (10%)					
Fat, Necrosis	8 (80%)	6 (100%)	3 (60%)	6 (100%)		
Pancreas	(48)	(49)	(48)	(50)	(50)	
Atrophy	2 (4%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)	
Basophilic Focus	1 (2%)	1 (2%)	1 (2%)	(/	()	
Cyst	1 (2%)	. (_,_,)	2 (4%)	3 (6%)		
Infiltration Cellular, Lymphocyte	3 (6%)		1 (2%)	1 (2%)		
Acinus, Cytoplasmic Alteration	2 (4%)		1 (2%)	. (= /0)		
Salivary Glands	(49)	(48)	(49)	(50)	(50)	
Infiltration Cellular, Lymphocyte	11 (22%)	13 (27%)	19 (39%)	13 (26%)	(00)	
Stomach, Forestomach	(50)	(49)	(48)	(50)	(50)	
Diverticulum	(50)	1 (2%)	1 (2%)	(30)	(00)	
Erosion		1 (270)	1 (270)	1 (2%)		
Inflammation, Chronic			1 (20/)	1 (270)		
			1 (2%)	2(40())	4 (00()	
Epithelium, Hyperplasia	(40)	(40)	1 (2%)	2 (4%)	1 (2%)	
Stomach, Glandular	(48)	(49)	(47)	(48)	(50)	
Cyst	2 (4%)	1 (2%)	2 (4%)	2 (4%)		
Epithelium, Cytoplasmic Alteration				1 (2%)		
Epithelium, Hyperplasia	1 (2%)	4.5	(-)	1 (2%)	<i>(</i> 1)	
Tongue	(0)	(0)	(0)	(0)	(1)	
Cyst					1 (100%)	

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	RATES OF NON-NEOPI alpha/beta Th CAS Number: T	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI		
B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
CARDIOVASCULAR SYSTEM					
Heart Cardiomyopathy Inflammation, Acute Mineralization	(50) 1 (2%)	(49) 1 (2%) 2 (4%) 2 (4%)	(50) 1 (2%)	(50) 1 (2%)	(50)
	T (270)	2 (4%)	T (2 %)	1 (2 %)	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(49)	(49)	(50)	(50)
Accessory Adrenal Cortical Nodule	7 (14%)	5 (10%)	6 (12%)	9 (18%)	3 (6%)
Amyloid Deposition				1 (2%)	
Degeneration, Fatty	1 (2%)			1 (2%)	
Hyperplasia, Focal	2 (4%)	1 (2%)	1 (2%)		
Hypertrophy, Focal			1 (2%)	2 (4%)	
Capsule, Hyperplasia	1 (2%)	5 (10%)		4 (8%)	
Subcapsular, Cyst					1 (2%)
Subcapsular, Hyperplasia, Focal				1 (2%)	
Adrenal Medulla	(50)	(47)	(46)	(48)	(49)
Hyperplasia	1 (2%)	1 (2%)		1 (2%)	
Islets, Pancreatic	(48)	(49)	(48)	(50)	(50)
Cyst		1 (2%)			
Hyperplasia	1 (2%)		2 (4%)	4 (8%)	
Parathyroid Gland	(45)	(42)	(46)	(47)	(49)
Cyst	2 (4%)		1 (2%)		4 (8%)
Hyperplasia			1 (2%)		
Pituitary Gland	(49)	(48)	(48)	(49)	(47)
Pars Distalis, Cyst	3 (6%)	2 (4%)		3 (6%)	
Pars Distalis, Cytoplasmic Alteration, Focal	1 (2%)				
Pars Distalis, Hemorrhage				1 (2%)	
Pars Distalis, Hyperplasia, Focal Rathke's Cleft, Dilatation	9 (18%)	4 (8%)	7 (15%)	4 (8%)	1 (2%)
Thyroid Gland	(50)	(48)	(48)	(49)	(49)
Artery, Inflammation, Chronic Active		1 (2%)	· ·		

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI			
B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Follicle, Cyst Follicle, Degeneration, Focal Follicular Cell, Hyperplasia	1 (2%) 28 (56%)	2 (4%) 15 (31%)	28 (58%)	23 (47%) 3 (6%)	2 (4%)
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
GENITAL SYSTEM					
Clitoral Gland	(48)	(46)	(48)	(49)	(47)
Ovary	(48)	(47)	(49)	(48)	(50)
Amyloid Deposition				1 (2%)	
Angiectasis	1 (2%)	1 (2%)	2 (4%)	4 (8%)	
Cyst	15 (31%)	14 (30%)	14 (29%)	14 (29%)	2 (4%)
Hemorrhage	7 (15%)	5 (11%)	13 (27%)	10 (21%)	
Inflammation, Granulomatous		1 (2%)			
Mineralization		1 (2%)			
Pigmentation			2 (4%)		
Thrombosis	1 (2%)		1 (2%)		
Granulosa Cell, Hyperplasia		1 (2%)			
Uterus	(50)	(49)	(50)	(50)	(50)
Amyloid Deposition				1 (2%)	
Angiectasis	1 (2%)	1 (2%)	2 (4%)	4 (8%)	
Infiltration Cellular, Histiocyte	1 (2%)				
Inflammation, Suppurative	1 (2%)	4 (001)		4 (001)	
Inflammation, Acute		1 (2%)		1 (2%)	
Necrosis	4 (00/)			1 (2%)	
Pigmentation Thrombosis	1 (2%)	1 (20/)	1 (20/)	1 (20/)	
Endometrium, Hyperplasia, Cystic	1 (2%) 39 (78%)	1 (2%) 26 (53%)	1 (2%) 34 (68%)	1 (2%) 35 (70%)	15 (30%)
Myometrium, Hypertrophy	39 (10%)	26 (53%) 1 (2%)	34 (00%)	33 (70%)	15 (50%)

# Test Type: CHRONIC

#### Route: GAVAGE

Species/Strain: MICE/B6C3F1

#### P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(49)	(49)	(50)	(50)	
Angiectasis		1 (2%)				
Hyperplasia	19 (38%)	20 (41%)	13 (27%)	16 (32%)	5 (10%)	
Myelofibrosis		1 (2%)				
Lymph Node	(6)	(3)	(3)	(1)	(0)	
Bronchial, Atrophy		1 (33%)				
Bronchial, Pigmentation		1 (33%)				
Iliac, Ectasia	1 (17%)	· · · ·				
lliac, Hematopoietic Cell Proliferation	1 (17%)					
Mediastinal, Atrophy	· · · ·	1 (33%)				
Mediastinal, Ectasia	1 (17%)	· · /				
Mediastinal, Pigmentation		1 (33%)				
Lymph Node, Mandibular	(48)	(46)	(45)	(48)	(49)	
Atrophy	1 (2%)				( )	
Hematopoietic Cell Proliferation	2 (4%)		1 (2%)		1 (2%)	
Hyperplasia, Lymphoid	9 (19%)	6 (13%)	7 (16%)	2 (4%)	3 (6%)	
Infiltration Cellular, Histiocyte	- ( )	- ( )	()	1 (2%)	- ( )	
Pigmentation	4 (8%)	3 (7%)	4 (9%)	3 (6%)		
Lymph Node, Mesenteric	(46)	(49)	(46)	(48)	(47)	
Atrophy	(10)	2 (4%)	1 (2%)	1 (2%)	1 (2%)	
Ectasia	1 (2%)	= ( : , ; ; )	. (= /0)	2 (4%)	. (_,,,,	
Hematopoietic Cell Proliferation	. (= / *)		1 (2%)	1 (2%)		
Hemorrhage	2 (4%)	4 (8%)	1 (2%)	4 (8%)		
Hyperplasia, Lymphoid	6 (13%)	6 (12%)	2 (4%)	7 (15%)		
Infiltration Cellular, Histiocyte		• ( .= , • ,	- ( ,	1 (2%)		
Necrosis		1 (2%)		. (= / )/		
Pigmentation	1 (2%)	. (		1 (2%)		
Spleen	(50)	(49)	(48)	(50)	(50)	
Amyloid Deposition	1 (2%)	(10)	(10)	(30)	()	
Atrophy	. (2,0)			1 (2%)		
Hematopoietic Cell Proliferation	33 (66%)	39 (80%)	36 (75%)	37 (74%)	5 (10%)	
Pigmentation	1 (2%)		00 (1070)	1 (2%)	1 (2%)	
Lymphoid Follicle, Atrophy	· (270)			1 (2%)		
Lymphoid Follicle, Hyperplasia	12 (24%)	14 (29%)	12 (25%)	17 (34%)		
a - Number of animals examined microscopic						

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	ATES OF NON-NEOP alpha/beta Th CAS Number: 7	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI			
B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG	
Thymus Atrophy	(46) 4 (9%)	(45) 8 (18%)	(46) 5 (11%)	(48) 6 (13%)	(49) 3 (6%)	
Cyst	. (070)	1 (2%)				
Hemorrhage	1 (2%)	1 (2%)				
Hyperplasia, Lymphoid Inflammation, Chronic Active	6 (13%)	1 (2%) 3 (7%)	2 (4%)	4 (8%)	1 (2%) 3 (6%)	
INTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(49)	(50)	(50)	(50)	
Hyperplasia	5 (10%)	5 (10%)	3 (6%)	6 (12%)		
Skin	(50)	(49)	(50)	(50)	(50)	
Cyst Epithelial Inclusion				1 (2%)		
Edema		1 (2%)		1 (2%)		
Hemorrhage					1 (2%)	
Inflammation, Chronic Active		1 (2%)				
Ulcer	2 (4%)	1 (2%)				
Subcutaneous Tissue, Inflammation, Chronic Active		1 (2%)				
MUSCULOSKELETAL SYSTEM						
Bone	(50)	(49)	(50)	(50)	(50)	
Fibrosis	1 (2%)	2 (4%)	1 (2%)	3 (6%)		
Fracture	1 (2%)		2 (4%)			
Femur, Hyperostosis	1 (2%)					
Skeletal Muscle	(3)	(2)	(0)	(0)	(0)	
NERVOUS SYSTEM						
Brain	(50)	(49)	(50)	(50)	(50)	
Compression	1 (2%)	. ,	. ,	1 (2%)		
Cyst Epithelial Inclusion	1 (2%)					
Hemorrhage	•			1 (2%)	1 (2%)	

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1	P03: INCIDENCE R	ATES OF NON-NEOPI alpha/beta Th CAS Number: T	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI		
B6C3F1 MICE FEMALE	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Necrosis Artery, Meninges, Inflammation, Chronic Active	1 (2%)	1 (2%)		1 (2%)	
RESPIRATORY SYSTEM					
Lung	(50)	(49)	(50)	(50)	(50)
Fibrosis		1 (2%)			
Foreign Body		8 (16%)			5 (10%)
Hemorrhage	2 (4%)		1 (2%)	7 (14%)	6 (12%)
Infiltration Cellular, Histiocyte			1 (2%)		
Infiltration Cellular, Lymphocyte	2 (4%)		2 (4%)	4 (8%)	
Inflammation, Suppurative		1 (2%)			
Inflammation, Granulomatous		1 (2%)			
Inflammation, Acute		4 (8%)	1 (2%)		
Inflammation, Chronic	1 (2%)				1 (2%)
Inflammation, Chronic Active		2 (4%)			1 (2%)
Metaplasia, Osseous			1 (2%)		
Thrombosis	1 (2%)			1 (2%)	
Alveolar Epithelium, Hyperplasia	1 (2%)	1 (2%)	1 (2%)		
Arteriole, Hypertrophy					1 (2%)
Nose	(50)	(49)	(50)	(50)	(50)
Foreign Body	1 (2%)	4 (8%)			
Inflammation, Chronic	2 (4%)	4 (8%)	2 (4%)		
Pleura	(0)	(0)	(0)	(0)	(4)
Inflammation, Acute					4 (100%)
Trachea	(50)	(49)	(50)	(50)	(50)
Inflammation, Chronic Active					1 (2%)
SPECIAL SENSES SYSTEM					
Eye	(50)	(49)	(50)	(50)	(50)
Atrophy	. ,	1 (2%)	· /	1 (2%)	
Cataract			2 (4%)	× /	
Inflammation, Chronic	1 (2%)	2 (4%)	2 (4%)	2 (4%)	
Cornea, Hyperplasia	( )	1 (2%)	2 (4%)	1 (2%)	

TDMS No. 99037 - 06 Test Type: CHRONIC Route: GAVAGE Species/Strain: MICE/B6C3F1 B6C3F1 MICE FEMALE	P03: INCIDENCE R	ATES OF NON-NEOP alpha/beta Th CAS Number: 1	Date Report Requested: 08/11/2010 Time Report Requested: 13:12:57 First Dose M/F: 06/30/03 / 06/30/03 Lab: SRI		
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG	25 MG/KG
Harderian Gland	(50)	(49)	(50)	(49)	(50)
Cyst			1 (2%)		
Hyperplasia, Focal	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Infiltration Cellular, Lymphocyte			1 (2%)		
URINARY SYSTEM					
Kidney	(50)	(49)	(49)	(50)	(50)
Amyloid Deposition				1 (2%)	
Cyst	3 (6%)	3 (6%)		1 (2%)	
Glomerulosclerosis		1 (2%)			
Infarct	2 (4%)	5 (10%)	6 (12%)	1 (2%)	
Infiltration Cellular, Lymphocyte	3 (6%)	9 (18%)	5 (10%)	5 (10%)	
Inflammation, Chronic	1 (2%)				
Metaplasia, Osseous	1 (2%)	1 (2%)	2 (4%)	3 (6%)	
Mineralization				1 (2%)	
Nephropathy	11 (22%)	11 (22%)	5 (10%)	7 (14%)	3 (6%)
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	2 (4%)	1 (2%)	2 (4%)	
Renal Tubule, Cytoplasmic Alteration			1 (2%)		
Renal Tubule, Pigmentation	1 (2%)		2 (4%)		
Urinary Bladder	(50)	(49)	(49)	(50)	(50)
Infiltration Cellular, Lymphocyte	2 (4%)	1 (2%)	2 (4%)	4 (8%)	

\*\*\* END OF REPORT \*\*\*