

**Experiment Number:** 05069-09  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Mouse/B6C3F1

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:15:30  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**C Number:** C60902B  
**Lock Date:** Not Entered.  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date** NONE

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 Lab: TSI MASON

B6C3F1 Mouse MALE	0 MG/KG	6.0 MG/K	10.0 MG/KG
<b>Disposition Summary</b>			
Animals Initially In Study	60	60	60
Scheduled Sacrifice	10	10	10
Early Deaths			
Moribund Sacrifice	7	5	4
Natural Death	4	3	6
Survivors			
Terminal Sacrifice	39	42	40
Animals Examined Microscopically	15	13	14
<b>ALIMENTARY SYSTEM</b>			
Esophagus	(15)	(13)	(14)
Gallbladder	(14)	(10)	(11)
Intestine Large, Cecum	(14)	(12)	(13)
Intestine Large, Colon	(15)	(12)	(13)
Intestine Large, Rectum	(15)	(12)	(13)
Intestine Small, Duodenum	(13)	(12)	(13)
Inflammation, Chronic			1 [3.0]
Intestine Small, Ileum	(14)	(12)	(12)
Intestine Small, Jejunum	(14)	(12)	(12)
Liver	(15)	(13)	(14)
Basophilic Focus	2		
Clear Cell Focus	1	3	4
Fatty Change	9 [2.0]	7 [1.9]	9 [1.9]
Hyperplasia			1 [2.0]
Inflammation, Chronic			1 [1.0]
Necrosis	1 [2.0]		1 [1.0]
Mesentery	(1)	(0)	(1)
Fat, Necrosis			1 [2.0]

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<b>B6C3F1 Mouse MALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Pancreas	(15)	(12)	(13)
Acinus, Atrophy	1 [2.0]	1 [1.0]	1 [2.0]
Salivary Glands	(15)	(13)	(14)
Infiltration Cellular, Lymphocyte	1 [2.0]		
Stomach, Forestomach	(15)	(12)	(13)
Hyperplasia, Squamous		2 [1.0]	1 [2.0]
Stomach, Glandular	(15)	(12)	(13)
Cyst			1
Erosion	2 [1.5]		
Hyperplasia		1 [1.0]	
Inflammation, Acute	1 [1.0]		
Inflammation, Subacute		1 [2.0]	
Mineralization			1 [1.0]
Tongue	(0)	(1)	(0)
Tooth	(0)	(0)	(2)
Abscess			1 [2.0]
Dysplasia			1 [3.0]
<b>CARDIOVASCULAR SYSTEM</b>			
Heart	(15)	(13)	(14)
Cardiomyopathy	2 [1.5]	2 [1.0]	5 [1.0]
Inflammation, Acute			1 [1.0]
Valve, Bacterium			1 [2.0]
<b>ENDOCRINE SYSTEM</b>			
Adrenal Gland	(14)	(10)	(10)
Capsule, Hyperplasia	14 [1.1]	10 [1.1]	10 [1.3]
Adrenal Gland, Cortex	(15)	(13)	(14)
Cytoplasmic Alteration	1 [1.0]		
Hyperplasia	1 [1.0]	2 [1.5]	2 [2.0]

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Lab: TSI MASON

<b>B6C3F1 Mouse MALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Adrenal Gland, Medulla	(15)	(13)	(14)
Islets, Pancreatic	(15)	(12)	(13)
Hyperplasia	15 [2.3]	12 [2.5]	11 [2.3]
Parathyroid Gland	(13)	(10)	(13)
Cyst	1		
Pituitary Gland	(15)	(13)	(14)
Pars Distalis, Cyst		1	
Pars Distalis, Hyperplasia	1 [1.0]		
Thyroid Gland	(15)	(13)	(14)
Follicle, Hypertrophy	4 [1.0]	4 [1.0]	6 [1.0]

**GENERAL BODY SYSTEM**

None

**GENITAL SYSTEM**

Epididymis	(15)	(13)	(14)
Fat, Necrosis	1 [1.0]		
Penis	(0)	(1)	(1)
Congestion			1 [2.0]
Edema		1 [2.0]	
Preputial Gland	(15)	(13)	(14)
Cyst	1	2	3
Dilatation		2 [3.0]	1 [3.0]
Inflammation, Chronic	4 [2.0]	4 [2.0]	3 [1.0]
Metaplasia, Squamous	1 [2.0]		1 [2.0]
Prostate	(15)	(13)	(14)
Concretion		2 [1.5]	
Seminal Vesicle	(15)	(13)	(14)
Dilatation		1 [4.0]	1 [4.0]
Testes	(15)	(13)	(14)

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<b>B6C3F1 Mouse MALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Atrophy			1 [1.0]
Interstit Cell, Hyperplasia	1 [1.0]		
<b>HEMATOPOIETIC SYSTEM</b>			
Bone Marrow	(15)	(13)	(14)
Necrosis			1 [2.0]
Lymph Node	(1)	(1)	(0)
Inguinal, Pigmentation	1 [2.0]		
Mediastinal, Hyperplasia, Lymphoid		1 [3.0]	
Mediastinal, Infiltration Cellular, Plasma Cell		1 [2.0]	
Lymph Node, Mandibular	(15)	(13)	(14)
Infiltration Cellular, Histiocyte			1 [2.0]
Infiltration Cellular, Plasma Cell		1 [2.0]	
Lymph Node, Mesenteric	(15)	(12)	(13)
Hyperplasia, Lymphoid		1 [3.0]	
Infiltration Cellular, Histiocyte			1 [2.0]
Inflammation, Acute		1 [1.0]	
Spleen	(15)	(11)	(14)
Hematopoietic Cell Proliferation	3 [3.7]	3 [2.7]	1 [2.0]
Thymus	(14)	(12)	(14)
Cyst	1	3	3
Ectopic Parathyroid Gland	1	3	1
Hyperplasia, Lymphoid		1 [2.0]	
<b>INTEGUMENTARY SYSTEM</b>			
Mammary Gland	(1)	(1)	(1)
Skin	(15)	(13)	(14)
Back, Acanthosis			4 [1.5]
Back, Infiltration Cellular, Mast Cell		1 [2.0]	
Inguinal, Congestion			1 [2.0]

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B6C3F1 Mouse MALE	0 MG/KG	6.0 MG/K	10.0 MG/KG
<b>MUSCULOSKELETAL SYSTEM</b>			
Bone	(15)	(13)	(14)
<b>NERVOUS SYSTEM</b>			
Brain	(15)	(12)	(13)
Hemorrhage			1 [1.0]
Mineralization	9 [1.0]	7 [1.0]	9 [1.0]
<b>RESPIRATORY SYSTEM</b>			
Lung	(15)	(13)	(14)
Alveolus, Infiltration Cellular, Histiocyte		1 [4.0]	
Hemorrhage	2 [1.0]		
Inflammation, Chronic		2 [2.0]	
Metaplasia, Osseous	1 [1.0]		
Nose	(15)	(13)	(14)
Glands, Inflammation, Acute	5 [1.0]	2 [1.0]	3 [1.0]
Trachea	(15)	(13)	(14)
<b>SPECIAL SENSES SYSTEM</b>			
Harderian Gland	(0)	(0)	(1)
<b>URINARY SYSTEM</b>			
Kidney	(15)	(13)	(14)
Bacterium			1 [1.0]
Cortex, Mineralization	13 [1.0]	13 [1.0]	11 [1.1]
Cyst		1	1
Hydronephrosis			1 [2.0]
Inflammation, Acute			1 [2.0]
Mineralization			2 [1.0]
Nephropathy	10 [1.7]	10 [1.4]	10 [1.3]
Nephropathy, Acute			1 [2.0]

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<b>B6C3F1 Mouse MALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Nephropathy, Chronic	1 [2.0]	2 [2.0]	2 [1.0]
Pelvis, Hemorrhage		1 [3.0]	
Renal Tubule, Degeneration, Hyaline	1 [2.0]		
Renal Tubule, Hyperplasia	1 [1.0]		1 [1.0]
Urinary Bladder	(15)	(13)	(14)
Dilatation		1 [4.0]	
Hemorrhage		1 [3.0]	

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

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B6C3F1 Mouse FEMALE	0 MG/KG	6.0 MG/K	10.0 MG/KG
<b>Disposition Summary</b>			
Animals Initially In Study	60	60	60
Scheduled Sacrifice	10	10	10
<b>Early Deaths</b>			
Accidentally Killed	2		
Moribund Sacrifice	5	5	12
Natural Death	5	4	3
<b>Survivors</b>			
Moribund Sacrifice	1	1	1
Natural Death			1
Terminal Sacrifice	37	40	32
Missing			1
<b>Animals Examined Microscopically</b>	<b>19</b>	<b>13</b>	<b>17</b>

**ALIMENTARY SYSTEM**

Esophagus	(18)	(13)	(17)
Gallbladder	(16)	(13)	(16)
Intestine Large, Cecum	(18)	(13)	(16)
Intestine Large, Colon	(17)	(13)	(16)
Intestine Large, Rectum	(19)	(12)	(17)
Intestine Small, Duodenum	(17)	(13)	(15)
Intestine Small, Ileum	(16)	(12)	(16)
Inflammation, Acute			1 [4.0]
Intestine Small, Jejunum	(17)	(13)	(16)
Perforation			1
Liver	(19)	(13)	(17)
Clear Cell Focus			3
Eosinophilic Focus			1
Fatty Change	1 [2.0]	1 [2.0]	1 [2.0]

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<b>B6C3F1 Mouse FEMALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Hematopoietic Cell Proliferation	1 [1.0]		1 [1.0]
Hyperplasia	1 [2.0]		1 [2.0]
Mixed Cell Focus	1	1	
Necrosis	1 [2.0]		
Mesentery	(3)	(1)	(1)
Fat, Necrosis	3 [2.3]	1 [2.0]	1 [3.0]
Hemorrhage	1 [2.0]		
Pancreas	(18)	(13)	(16)
Acinus, Atrophy	3 [1.0]	3 [1.3]	1 [2.0]
Cyst	1		1
Cytoplasmic Alteration			1 [1.0]
Inflammation, Acute	1 [3.0]		1 [2.0]
Inflammation, Chronic	1 [2.0]		1 [2.0]
Salivary Glands	(19)	(13)	(17)
Hypoplasia	1 [4.0]		
Infiltration Cellular, Lymphocyte	1 [3.0]		
Stomach, Forestomach	(19)	(13)	(17)
Inflammation, Chronic			1 [1.0]
Stomach, Glandular	(18)	(13)	(17)
Cyst			1
Erosion	1 [2.0]		
Hemorrhage			1 [1.0]
Mineralization	1 [1.0]		1 [1.0]
Tooth	(0)	(0)	(2)
Abscess			1 [1.0]
<b>CARDIOVASCULAR SYSTEM</b>			
Heart	(19)	(13)	(17)
Cardiomyopathy	6 [1.3]	4 [1.0]	4 [1.3]

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B6C3F1 Mouse FEMALE	0 MG/KG	6.0 MG/K	10.0 MG/KG
<b>ENDOCRINE SYSTEM</b>			
Adrenal Gland	(19)	(13)	(17)
Capsule, Hyperplasia	19 [1.6]	13 [1.8]	17 [1.9]
Adrenal Gland, Cortex	(19)	(13)	(17)
Focal Cellular Change	1 [1.0]		
Adrenal Gland, Medulla	(19)	(13)	(17)
Hyperplasia	1 [1.0]		
Islets, Pancreatic	(18)	(13)	(16)
Hyperplasia	9 [1.7]	9 [1.1]	12 [1.7]
Parathyroid Gland	(13)	(11)	(11)
Pituitary Gland	(17)	(12)	(17)
Pars Distalis, Hyperplasia	4 [1.0]	3 [1.3]	2 [1.5]
Thyroid Gland	(19)	(13)	(17)
Cyst		1	
Follicle, Hypertrophy	6 [1.3]	6 [1.3]	5 [1.0]
Follicular Cel, Hyperplasia	1 [1.0]	2 [1.5]	1 [1.0]
Inflammation, Chronic	1 [1.0]		
<b>GENERAL BODY SYSTEM</b>			
None			
<b>GENITAL SYSTEM</b>			
Clitoral Gland	(18)	(13)	(17)
Dilatation		1 [2.0]	
Ovary	(18)	(13)	(16)
Angiectasis	1 [1.0]		1 [1.0]
Cyst	1		5
Hematocyst	3	2	1
Hemorrhage	1 [4.0]		
Uterus	(19)	(13)	(17)

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Hemorrhage	1 [4.0]	1 [4.0]	
Hyperplasia, Cystic	5 [2.4]	2 [3.0]	4 [3.3]
Hyperplasia, Cystic, Glandular	10 [3.4]	10 [3.3]	11 [3.5]
<b>HEMATOPOIETIC SYSTEM</b>			
Bone Marrow	(19)	(13)	(17)
Myelofibrosis	8 [1.3]	3 [1.0]	3 [1.0]
Lymph Node	(1)	(1)	(0)
Lymph Node, Mandibular	(19)	(13)	(17)
Lymph Node, Mesenteric	(18)	(13)	(16)
Hyperplasia, Reticulum Cell			1 [2.0]
Infiltration Cellular			1 [2.0]
Spleen	(19)	(13)	(16)
Hematopoietic Cell Proliferation	4 [3.3]	2 [4.0]	2 [3.5]
Thymus	(19)	(12)	(16)
Cyst	1	1	1
Ectopic Parathyroid Gland	3		2
<b>INTEGUMENTARY SYSTEM</b>			
Mammary Gland	(19)	(13)	(17)
Skin	(19)	(13)	(17)
Back, Acanthosis			4 [1.5]
Back, Inflammation, Chronic			1 [1.0]
Back, Ulcer			2 [1.5]
Fat, Subcut Tiss, Necrosis			1 [2.0]
Inguinal, Inflammation, Chronic		1 [1.0]	
Subcut Tiss, Hemorrhage	1 [3.0]		
<b>MUSCULOSKELETAL SYSTEM</b>			
Bone	(19)	(13)	(17)
Inflammation, Chronic			1 [3.0]

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<b>B6C3F1 Mouse FEMALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Skeletal Muscle	(1)	(0)	(0)
<b>NERVOUS SYSTEM</b>			
Brain	(19)	(13)	(17)
Demyelination	1 [3.0]		
Hemorrhage			1 [2.0]
Mineralization	5 [1.0]	5 [1.0]	3 [1.0]
Thrombosis	1 [1.0]		
<b>RESPIRATORY SYSTEM</b>			
Lung	(19)	(13)	(17)
Alveolar Epith, Hyperplasia	1 [2.0]		
Congestion	1 [2.0]		
Hemorrhage	5 [1.0]		
Nose	(19)	(13)	(17)
Foreign Body	1 [1.0]		
Glands, Inflammation, Acute	5 [1.0]	7 [1.1]	6 [1.0]
Lumen, Inflammation, Acute	1 [1.0]		
Trachea	(19)	(13)	(17)
<b>SPECIAL SENSES SYSTEM</b>			
None			
<b>URINARY SYSTEM</b>			
Kidney	(19)	(13)	(17)
Cortex, Mineralization	1 [1.0]		
Nephropathy	2 [1.0]	5 [1.0]	6 [1.0]
Nephropathy, Chronic	2 [1.5]		2 [1.0]
Renal Tubule, Degeneration, Hyaline		1 [3.0]	
Renal Tubule, Dilatation		1 [3.0]	
Renal Tubule, Necrosis	1 [1.0]		

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**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)

CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:15:31

First Dose M/F: NA / NA

Lab: TSI MASON

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<b>B6C3F1 Mouse FEMALE</b>	<b>0 MG/KG</b>	<b>6.0 MG/K</b>	<b>10.0 MG/KG</b>
Urinary Bladder	(18)	(13)	(17)
Infiltration Cellular, Lymphocyte	1 [3.0]		

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

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)