

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:25
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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 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:26
 First Dose M/F: NA / NA
 Lab: TSI MASON

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

Flammation, Acute																													
Cardiovascular System																													
Heart																													
Cardiomyopathy																													
Endocrine System																													
Adrenal Gland																													
Capsule, Hyperplasia																													
Adrenal Gland, Cortex																													
Cytoplasmic Alteration																													
Hyperplasia																													
Adrenal Gland, Medulla																													
Islets, Pancreatic																													
Hyperplasia																													
Parathyroid Gland																													
Cyst																													
Pituitary Gland																													
Pars Distalis, Hyperplasia																													
Thyroid Gland																													
Follicle, Hypertrophy																													
General Body System																													
NONE																													

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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B6C3F1 Mouse Male	7	7	6	7	7	5	4	4	7	4	7	7	5	4	7	6	4	4	7	7	7	7	4	7	4	7	7	7	7
0 MG/KG	3	3	7	3	3	0	6	6	3	6	3	3	9	6	3	4	7	6	3	3	3	3	6	3	6	3	6	3	3
	1	1	7	1	1	8	3	3	1	3	1	1	8	3	1	8	1	3	1	1	1	1	1	1	1	1	2	2	1

Genital System

Epididymis																													
Fat, Necrosis																													
Preputial Gland																													
Cyst																													
Inflammation, Chronic																													
Metaplasia, Squamous																													
Prostate																													
Seminal Vesicle																													
Testes																													
Interstit Cell, Hyperplasia																													

Hematopoietic System

Bone Marrow																													
Lymph Node																													
Inguinal, Pigmentation																													
Lymph Node, Mandibular																													
Lymph Node, Mesenteric																													
Spleen																													
Hematopoietic Cell Proliferation																													
Thymus																													
Cyst																													
Ectopic Parathyroid 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	0	0	0	0		
ANIMAL ID	7	7	6	7	7	5	4	4	7	4	7	7	5	4	7	6	4	4	7	7	7	7	4	7	4	7	7	7	7		
	3	3	7	3	3	0	6	6	3	6	3	3	9	6	3	4	7	6	3	3	3	3	6	3	6	3	3	2	3	3	
	1	1	7	1	1	8	3	3	1	3	1	1	8	3	1	8	1	3	1	1	1	1	1	1	1	1	1	2	1	1	
	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	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	
	1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	1	2	2	3	4	5	6	7	
Cortex, Mineralization							1	1			1			1	1																
Nephropathy							2	2		1					2												2		1		
Nephropathy, Chronic															2																
Renal Tubule, Degeneration, Hyaline															2																
Renal Tubule, Hyperplasia																															
Urinary Bladder							+	+	+		+				+	+											+		+		

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ANIMAL ID	7	4	7	6	7	6	7	7	7	4	7	7	7	4	7	7	7	7	7	7	6	4	7	7	7	7	7	7	7
	3	6	3	9	3	1	3	3	3	6	3	3	3	6	0	3	3	3	3	3	5	2	3	3	3	3	3	3	3
	1	3	1	1	1	7	1	1	1	3	1	1	1	3	9	1	1	1	1	1	2	8	1	1	1	1	1	1	1
Inflammation, Acute	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
Cardiovascular System	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
Heart	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
Cardiomyopathy	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
Endocrine System	2	3	4	5	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
Adrenal 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	0	0	0	0
	7	4	7	6	7	6	7	7	7	4	7	7	7	4	7	7	7	7	7	7	6	4	7	7	7	7	7	7	7
	3	6	3	9	3	1	3	3	3	6	3	3	3	6	0	3	3	3	3	3	5	2	3	3	3	3	3	3	3
	1	3	1	1	1	7	1	1	1	3	1	1	1	3	9	1	1	1	1	1	2	8	1	1	1	1	1	1	1
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	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	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6
	2	3	4	5	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

Integumentary System

Mammary Gland	M	M	M	M	+
Skin	+	+	+	+	+

Musculoskeletal System

Bone	+	+	+	+	+
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Nervous System

Brain	+	+	+	+	+
Mineralization	1		1		

Respiratory System

Lung	+	+	+	+	+
Hemorrhage			1		
Metaplasia, Osseous					
Nose	+	+	+	+	+
Glands, Inflammation, Acute			1		
Trachea	+	+	+	+	+

Special Senses System

NONE					
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Urinary System

Kidney	+	+	+	+	+
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Lab: TSI MASON

B6C3F1 Mouse Male 0 MG/KG	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	0	0	0	0	
	7	4	7	6	7	6	7	7	7	4	7	7	7	4	7	7	7	7	7	7	6	4	7	7	7	7	7	7	7	
	3	6	3	9	3	1	3	3	3	6	3	3	3	6	0	3	3	3	3	3	5	2	3	3	3	3	3	3	3	
	1	3	1	1	1	7	1	1	1	3	1	1	1	3	9	1	1	1	1	1	2	8	1	1	1	1	1	1	1	
	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	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	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	
	2	3	4	5	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	
Cortex, Mineralization		1								1				1							1									
Nephropathy		2								2				1																
Nephropathy, Chronic																														
Renal Tubule, Degeneration, Hyaline																														
Renal Tubule, Hyperplasia																														
Urinary Bladder		+				+				+				+																

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DAY ON TEST

B6C3F1 Mouse Male
0 MG/KG

ANIMAL ID

*TOTALS

Alimentary System

Esophagus	15		
Gallbladder	14		
Intestine Large, Cecum	14		
Intestine Large, Colon	15		
Intestine Large, Rectum	15		
Intestine Small, Duodenum	13		
Intestine Small, Ileum	14		
Intestine Small, Jejunum	14		
Liver	15		
Basophilic Focus	2		
Clear Cell Focus	1		
Fatty Change	9	2.0	
Necrosis	1	2.0	
Mesentery	1		
Pancreas	15		
Acinus, Atrophy	1	2.0	
Salivary Glands	15		
Infiltration Cellular, Lymphocyte	1	2.0	
Stomach, Forestomach	15		
Stomach, Glandular	15		
Erosion	2	1.5	
Inflammation, Acute	1	1.0	

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DAY ON TEST

B6C3F1 Mouse Male
0 MG/KG

	ANIMAL ID	<u>*TOTALS</u>	
Cardiovascular System			
Heart		15	
Cardiomyopathy		2	1.5
Endocrine System			
Adrenal Gland		14	
Capsule, Hyperplasia		14	1.1
Adrenal Gland, Cortex		15	
Cytoplasmic Alteration		1	1.0
Hyperplasia		1	1.0
Adrenal Gland, Medulla		15	
Islets, Pancreatic		15	
Hyperplasia		15	2.3
Parathyroid Gland		13	
Cyst		1	
Pituitary Gland		15	
Pars Distalis, Hyperplasia		1	1.0
Thyroid Gland		15	
Follicle, Hypertrophy		4	1.0
General Body System			
NONE			
Genital System			
Epididymis		15	

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B6C3F1 Mouse Male
0 MG/KG

	ANIMAL ID	<u>*TOTALS</u>	
Fat, Necrosis		1	1.0
Preputial Gland		15	
Cyst		1	
Inflammation, Chronic		4	2.0
Metaplasia, Squamous		1	2.0
Prostate		15	
Seminal Vesicle		15	
Testes		15	
Interstit Cell, Hyperplasia		1	1.0
Hematopoietic System			
Bone Marrow		15	
Lymph Node		1	
Inguinal, Pigmentation		1	2.0
Lymph Node, Mandibular		15	
Lymph Node, Mesenteric		15	
Spleen		15	
Hematopoietic Cell Proliferation		3	3.7
Thymus		14	
Cyst		1	
Ectopic Parathyroid Gland		1	
Integumentary System			
Mammary Gland		1	
Skin		15	

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0 MG/KG

	ANIMAL ID	*TOTALS	
Musculoskeletal System			
Bone		15	
Nervous System			
Brain		15	
Mineralization		9	1.0
Respiratory System			
Lung		15	
Hemorrhage		2	1.0
Metaplasia, Osseous		1	1.0
Nose		15	
Glands, Inflammation, Acute		5	1.0
Trachea		15	
Special Senses System			
NONE			
Urinary System			
Kidney		15	
Cortex, Mineralization		13	1.0
Nephropathy		10	1.7
Nephropathy, Chronic		1	2.0
Renal Tubule, Degeneration, Hyaline		1	2.0
Renal Tubule, Hyperplasia		1	1.0

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B6C3F1 Mouse Male
0 MG/KG

ANIMAL ID

*TOTALS

Urinary Bladder

15

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B6C3F1 Mouse Male 6.0 MG/K	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	0	0	0	0
ANIMAL ID	7	7	7	7	7	6	4	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	7	6	6	3	3	3	3	3	3	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3
	1	1	1	1	1	4	3	3	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	0	0
Heart	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
Cardiomyopathy	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
Endocrine System	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
Adrenal Gland	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
Capsule, Hyperplasia	1	2	3	4	5	6	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	
Adrenal Gland, Cortex																													
Hyperplasia																													
Adrenal Gland, Medulla																													
Islets, Pancreatic																													
Hyperplasia																													
Parathyroid Gland																													
Pars Distalis, Cyst																													
Thyroid Gland																													
Follicle, Hypertrophy																													
General Body System																													
NONE																													
Genital System																													
Epididymis																													
Penis																													
Edema																													

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:28
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Male	7	7	7	7	7	6	4	4	7	7	7	7	7	7	7	7	7	7	7	4	4	7	7	7	7	7	7	7	7
6.0 MG/K	3	3	3	3	3	7	6	6	3	3	3	3	3	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3
	1	1	1	1	1	4	3	3	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	0	0

Preputial Gland																														
Cyst																														
Dilatation																														
Inflammation, Chronic																														
Prostate																														
Concretion																														
Seminal Vesicle																														
Dilatation																														
Testes																														
Hematopoietic System																														
Bone Marrow																														
Lymph Node																														
Mediastinal, Hyperplasia, Lymphoid																														
Mediastinal, Infiltration Cellular, Plasma Cell																														
Lymph Node, Mandibular																														
Infiltration Cellular, Plasma Cell																														
Lymph Node, Mesenteric																														
Hyperplasia, Lymphoid																														
Inflammation, Acute																														
Spleen																														
Hematopoietic Cell Proliferation																														
Thymus																														

* ..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
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 1-4 ..Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:29
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 6.0 MG/K	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	0	0	0	0
ANIMAL ID	4	7	7	7	6	7	5	4	7	7	7	7	4	6	7	6	7	4	4	7	5	6	4	7	7	7	4	7	7
	6	3	3	3	9	3	9	6	3	3	3	3	6	7	3	6	3	6	6	3	7	5	6	3	3	3	7	3	3
	3	0	0	0	8	0	2	3	0	0	0	0	3	3	0	7	0	3	3	0	9	1	3	0	0	0	1	0	0
Heart	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
Cardiomyopathy	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
Endocrine System	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Adrenal Gland	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Capsule, Hyperplasia	2	3	4	5	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
Adrenal Gland, Cortex																													
Hyperplasia																													
Adrenal Gland, Medulla																													
Islets, Pancreatic																													
Hyperplasia																													
Parathyroid Gland																													
Pituitary Gland																													
Pars Distalis, Cyst																													
Thyroid Gland																													
Follicle, Hypertrophy																													
General Body System																													
NONE																													
Genital System																													
Epididymis																													
Penis																													
Edema																													

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 BLANK ..Not examined microscopically
 1-4 ..Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:29
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 6.0 MG/K	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	0	0	0	0
ANIMAL ID	4	7	7	7	6	7	5	4	7	7	7	7	4	6	7	6	7	4	4	7	5	6	4	7	7	7	4	7	7
	6	3	3	3	9	3	9	6	3	3	3	3	6	7	3	6	3	6	6	3	7	5	6	3	3	3	7	3	3
	3	0	0	0	8	0	2	3	0	0	0	0	3	3	0	7	0	3	3	0	9	1	3	0	0	0	1	0	0
Preputial Gland	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
Cyst	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
Dilatation	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inflammation, Chronic	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Prostate	2	3	4	5	6	7	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Concretion																													
Seminal Vesicle																													
Dilatation																													
Testes																													
Hematopoietic System																													
Bone Marrow																													
Lymph Node																													
Mediastinal, Hyperplasia, Lymphoid																													
Mediastinal, Infiltration Cellular, Plasma Cell																													
Lymph Node, Mandibular																													
Infiltration Cellular, Plasma Cell																													
Lymph Node, Mesenteric																													
Hyperplasia, Lymphoid																													
Inflammation, Acute																													
Spleen																													
Hematopoietic Cell Proliferation																													
Thymus																													

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:30
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
6.0 MG/K

ANIMAL ID

*TOTALS

Alimentary System

Esophagus	13	
Gallbladder	10	
Intestine Large, Cecum	12	
Intestine Large, Colon	12	
Intestine Large, Rectum	12	
Intestine Small, Duodenum	12	
Intestine Small, Ileum	12	
Intestine Small, Jejunum	12	
Liver	13	
Clear Cell Focus	3	
Fatty Change	7	1.9
Pancreas	12	
Acinus, Atrophy	1	1.0
Salivary Glands	13	
Stomach, Forestomach	12	
Hyperplasia, Squamous	2	1.0
Stomach, Glandular	12	
Hyperplasia	1	1.0
Inflammation, Subacute	1	2.0
Tongue	1	

Cardiovascular System

Heart	13	
-------	----	--

* ..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

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1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:30
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
6.0 MG/K

ANIMAL ID	*TOTALS	
Cardiomyopathy	2	1.0
Endocrine System		
Adrenal Gland	10	
Capsule, Hyperplasia	10	1.1
Adrenal Gland, Cortex	13	
Hyperplasia	2	1.5
Adrenal Gland, Medulla	13	
Islets, Pancreatic	12	
Hyperplasia	12	2.5
Parathyroid Gland	10	
Pituitary Gland	13	
Pars Distalis, Cyst	1	
Thyroid Gland	13	
Follicle, Hypertrophy	4	1.0
General Body System		
NONE		
Genital System		
Epididymis	13	
Penis	1	
Edema	1	2.0
Preputial Gland	13	
Cyst	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:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:30
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
6.0 MG/K

	ANIMAL ID		
		*TOTALS	
Dilatation		2	3.0
Inflammation, Chronic		4	2.0
Prostate		13	
Concretion		2	1.5
Seminal Vesicle		13	
Dilatation		1	4.0
Testes		13	
Hematopoietic System			
Bone Marrow		13	
Lymph Node		1	
Mediastinal, Hyperplasia, Lymphoid		1	3.0
Mediastinal, Infiltration Cellular, Plasma Cell		1	2.0
Lymph Node, Mandibular		13	
Infiltration Cellular, Plasma Cell		1	2.0
Lymph Node, Mesenteric		12	
Hyperplasia, Lymphoid		1	3.0
Inflammation, Acute		1	1.0
Spleen		11	
Hematopoietic Cell Proliferation		3	2.7
Thymus		12	
Cyst		3	
Ectopic Parathyroid Gland		3	
Hyperplasia, Lymphoid		1	2.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:30
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
6.0 MG/K

	ANIMAL ID	*TOTALS	
Integumentary System			
Mammary Gland		1	
Skin		13	
Back, Infiltration Cellular, Mast Cell		1	2.0
Musculoskeletal System			
Bone		13	
Nervous System			
Brain		12	
Mineralization		7	1.0
Respiratory System			
Lung		13	
Alveolus, Infiltration Cellular, Histiocyte		1	4.0
Inflammation, Chronic		2	2.0
Nose		13	
Glands, Inflammation, Acute		2	1.0
Trachea		13	
Special Senses System			
NONE			
Urinary System			
Kidney		13	
Cortex, Mineralization		13	1.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:30
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
6.0 MG/K

	ANIMAL ID	<u>*TOTALS</u>	
Cyst		1	
Nephropathy		10	1.4
Nephropathy, Chronic		2	2.0
Pelvis, Hemorrhage		1	3.0
Urinary Bladder	13		
Dilatation		1	4.0
Hemorrhage		1	3.0

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:31
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 10.0 MG/KG	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	0	0	0	0		
ANIMAL ID	6	7	7	7	4	4	4	3	7	7	5	7	7	7	7	6	7	7	6	7	7	5	7	4	4	4	4	7	7	7	7
	8	2	2	2	6	6	6	1	2	2	7	2	2	2	2	4	2	2	1	2	2	6	2	6	6	6	2	2	2	2	
	4	9	9	2	3	3	3	6	9	9	6	9	9	9	9	9	9	9	9	9	9	9	9	3	3	3	9	9	9	9	
Hyperplasia, Squamous	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	
Stomach, Glandular	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	
Cyst	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mineralization	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	
Tooth	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	6	7	8	9	0	
Cardiovascular System																															
Heart					+	+	+	+			+										+		+		+	+	+				
Cardiomyopathy						1					1										1			1		1					
Inflammation, Acute																						1									
Valve, Bacterium																						2									
Endocrine System																															
Adrenal Gland					+		+				+											+		+	+	+					
Capsule, Hyperplasia					1		1				2											1		1	2	1					
Adrenal Gland, Cortex					+	+	+	+			+											+		+	+	+					
Hyperplasia																						2									
Adrenal Gland, Medulla					+	+	+	+			+											+		+	+	+					
Islets, Pancreatic					+	+	+	A			+											+		+	+	+					
Hyperplasia					1		1				4												3		2	2	2				
Parathyroid Gland					+	+	+	+			+											+		+	+	+					
Pituitary Gland					+	+	+	+			+											+		+	+	+					

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:31
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 10.0 MG/KG	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	0	0	0	0		
ANIMAL ID	6	7	7	7	4	4	4	3	7	7	5	7	7	7	7	6	7	7	6	7	7	5	7	4	4	4	4	7	7	7	7
	8	2	2	2	6	6	6	1	2	2	7	2	2	2	2	4	2	2	1	2	2	6	2	6	6	6	6	2	2	2	2
	4	9	9	2	3	3	3	6	9	9	6	9	9	9	9	9	9	9	9	9	9	9	9	3	3	3	3	9	9	9	9
Thyroid Gland	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	
Follicle, Hypertrophy	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	
General Body System	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
NONE	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	
Genital System	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	6	7	8	9	0	
Epididymis					+	+	+	+			+										+		+	+	+						
Penis																															
Congestion																															
Preputial Gland					+	+	+	+			+																				
Cyst																															
Dilatation																															
Inflammation, Chronic																															
Metaplasia, Squamous																															
Prostate					+	+	+	+			+																				
Seminal Vesicle					+	+	+	+			+																				
Dilatation																															
Testes					+	+	+	+			+																				
Atrophy																															
Hematopoietic System																															
Bone Marrow					+	+	+	+			+																				
Necrosis																															

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:32
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Male	7	7	7	7	7	4	7	7	7	7	7	7	7	4	7	4	7	7	6	7	6	7	4	6	7	7	7	7	7
10.0 MG/KG	2	2	2	2	2	6	2	2	2	2	2	3	3	6	3	6	3	3	5	3	5	3	6	5	3	3	3	3	3
	9	9	9	9	9	3	9	9	9	9	9	0	0	3	0	3	0	0	5	0	9	0	3	6	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	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	
	2	3	4	5	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

Hyperplasia, Squamous																														
Stomach, Glandular							+																							
Cyst																														
Mineralization																														
Tooth							+																							
Abscess							2																							
Dysplasia																														
Cardiovascular System																														
Heart							+																							
Cardiomyopathy																														
Inflammation, Acute																														
Valve, Bacterium																														
Endocrine System																														
Adrenal Gland							+																							
Capsule, Hyperplasia							1																							
Adrenal Gland, Cortex							+																							
Hyperplasia																														
Adrenal Gland, Medulla							+																							
Islets, Pancreatic							+																							
Hyperplasia							3																							
Parathyroid Gland							+																							
Pituitary Gland							+																							

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:32
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 10.0 MG/KG	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	0	0
ANIMAL ID	7	7	7	7	7	4	7	7	7	7	7	7	7	4	7	4	7	7	6	7	6	7	4	6	7	7	7
	2	2	2	2	2	6	2	2	2	2	2	3	3	6	3	6	3	3	5	3	5	3	6	5	3	3	3
	9	9	9	9	9	3	9	9	9	9	9	0	0	3	0	3	0	0	5	0	9	0	3	6	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	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	
Thyroid Gland							+																				
Follicle, Hypertrophy															1	1											
General Body System																											
NONE																											
Genital System																											
Epididymis							+								+	+								+			
Penis																											
Congestion																											
Preputial Gland																											
Cyst																											
Dilatation																											
Inflammation, Chronic																											
Metaplasia, Squamous																											
Prostate																											
Seminal Vesicle																											
Dilatation																											
Testes																											
Atrophy																											
Hematopoietic System																											
Bone Marrow																											
Necrosis																											

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:32
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Male 10.0 MG/KG	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	0	0	0	0
ANIMAL ID	7	7	7	7	7	4	7	7	7	7	7	7	7	4	7	4	7	7	6	7	6	7	4	6	7	7	7	7	7
	2	2	2	2	2	6	2	2	2	2	2	3	3	6	3	6	3	3	5	3	5	3	6	5	3	3	3	3	3
	9	9	9	9	9	3	9	9	9	9	9	0	0	3	0	3	0	0	5	0	9	0	3	6	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	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	2	3	4	5	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

Lymph Node, Mandibular Infiltration Cellular, Histiocyte																														
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte																														
Spleen Hematopoietic Cell Proliferation																														
Thymus Cyst																														
Ectopic Parathyroid Gland																														
Integumentary System																														
Mammary Gland																														
Skin Back, Acanthosis																														
Inguinal, Congestion																														
Musculoskeletal System																														
Bone																														
Nervous System																														
Brain Hemorrhage																														
Mineralization																														
Respiratory System																														

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:32
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
10.0 MG/KG

ANIMAL ID

*TOTALS

Alimentary System

Esophagus	14		
Gallbladder	11		
Intestine Large, Cecum	13		
Intestine Large, Colon	13		
Intestine Large, Rectum	13		
Intestine Small, Duodenum	13		
Inflammation, Chronic	1	3.0	
Intestine Small, Ileum	12		
Intestine Small, Jejunum	12		
Liver	14		
Clear Cell Focus	4		
Fatty Change	9	1.9	
Hyperplasia	1	2.0	
Inflammation, Chronic	1	1.0	
Necrosis	1	1.0	
Mesentery	1		
Fat, Necrosis	1	2.0	
Pancreas	13		
Acinus, Atrophy	1	2.0	
Salivary Glands	14		
Stomach, Forestomach	13		
Hyperplasia, Squamous	1	2.0	

* ..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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:33
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
10.0 MG/KG

	ANIMAL ID	*TOTALS	
<hr/>			
Stomach, Glandular		13	
Cyst		1	
Mineralization		1	1.0
Tooth		2	
Abscess		1	2.0
Dysplasia		1	3.0
Cardiovascular System			
Heart		14	
Cardiomyopathy		5	1.0
Inflammation, Acute		1	1.0
Valve, Bacterium		1	2.0
Endocrine System			
Adrenal Gland		10	
Capsule, Hyperplasia		10	1.3
Adrenal Gland, Cortex		14	
Hyperplasia		2	2.0
Adrenal Gland, Medulla		14	
Islets, Pancreatic		13	
Hyperplasia		11	2.3
Parathyroid Gland		13	
Pituitary Gland		14	
Thyroid Gland		14	
Follicle, Hypertrophy		6	1.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:33
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
10.0 MG/KG

ANIMAL ID

*TOTALS

General Body System

NONE

Genital System

Epididymis	14		
Penis	1		
Congestion	1	2.0	
Preputial Gland	14		
Cyst	3		
Dilatation	1	3.0	
Inflammation, Chronic	3	1.0	
Metaplasia, Squamous	1	2.0	
Prostate	14		
Seminal Vesicle	14		
Dilatation	1	4.0	
Testes	14		
Atrophy	1	1.0	

Hematopoietic System

Bone Marrow	14		
Necrosis	1	2.0	
Lymph Node, Mandibular	14		
Infiltration Cellular, Histiocyte	1	2.0	
Lymph Node, Mesenteric	13		

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:33
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
10.0 MG/KG

	ANIMAL ID	<u>*TOTALS</u>	
Infiltration Cellular, Histiocyte		1	2.0
Spleen		14	
Hematopoietic Cell Proliferation		1	2.0
Thymus		14	
Cyst		3	
Ectopic Parathyroid Gland		1	
Integumentary System			
Mammary Gland		1	
Skin		14	
Back, Acanthosis		4	1.5
Inguinal, Congestion		1	2.0
Musculoskeletal System			
Bone		14	
Nervous System			
Brain		13	
Hemorrhage		1	1.0
Mineralization		9	1.0
Respiratory System			
Lung		14	
Nose		14	
Glands, Inflammation, Acute		3	1.0
Trachea		14	

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:33
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Male
10.0 MG/KG

	ANIMAL ID	*TOTALS	
Special Senses System			
Harderian Gland		1	
Urinary System			
Kidney		14	
Bacterium		1	1.0
Cortex, Mineralization		11	1.1
Cyst		1	
Hydronephrosis		1	2.0
Inflammation, Acute		1	2.0
Mineralization		2	1.0
Nephropathy		10	1.3
Nephropathy, Acute		1	2.0
Nephropathy, Chronic		2	1.0
Renal Tubule, Hyperplasia		1	1.0
Urinary Bladder		14	

END OF MALE DATA

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

+ ..Tissue examined microscopically

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:33
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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		
B6C3F1 Mouse Female	7	7	7	4	7	7	4	7	7	4	7	1	7	4	7	7	7	7	7	4	5	4	7	7	7	7	4	7	4	7		
0 MG/KG	3	3	3	6	3	2	6	3	3	6	3	9	3	6	3	3	3	3	3	6	9	6	3	3	0	3	3	6	3	3		
	6	6	6	2	6	2	2	6	6	2	5	1	6	2	6	6	6	6	6	2	5	2	6	6	6	6	6	2	6	6		
	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	0	0	0	0	0	0	0	0		
	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1		
	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	1	2	3	4	5	6	
Inflammation, Chronic																																
Salivary Glands					+		+		+		+		+		+		+		+	+	+					+		+		+		
Hypoplasia																																
Infiltration Cellular, Lymphocyte																																
Stomach, Forestomach					+		+		+		+		+		+		+		+		+	+	+				+		+		+	
Stomach, Glandular					+		+		+		A		+		+		+		+		+	+	+				+		+		+	
Erosion																																
Mineralization																																
Cardiovascular System																																
Heart					+		+		+		+		+		+		+		+		+	+	+				+		+		+	
Cardiomyopathy																																
Endocrine System																																
Adrenal Gland					+		+		+		+		+		+		+		+		+	+	+				+		+		+	
Capsule, Hyperplasia					2		1		2		1		2		2		1		2		1	2	1				2		2		2	
Adrenal Gland, Cortex					+		+		+		+		+		+		+		+		+	+	+				+		+		+	
Focal Cellular Change																																
Adrenal Gland, Medulla					+		+		+		+		+		+		+		+		+	+	+				+		+		+	
Hyperplasia																																
Islets, Pancreatic					+		+		+		A		+		+		+		+		+	+	+				+		+		+	
Hyperplasia																																
Parathyroid Gland					+		+		+		M		+		+		+		+		+	+	M				M		+		+	
Pituitary Gland					+		M		+		M		+		+		+		+		+	+	+				+		+		+	

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:34
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Female 0 MG/KG	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	0	0	0	0
ANIMAL ID	7	7	7	4	7	7	4	7	7	4	7	1	7	4	7	7	7	7	4	5	4	7	7	7	7	4	7	4	7
	3	3	3	6	3	2	6	3	3	6	3	9	3	6	3	3	3	3	6	9	6	3	3	0	3	3	6	6	3
	6	6	6	2	6	2	2	6	6	2	5	1	6	2	6	6	6	6	2	5	2	2	6	6	6	6	2	6	2
Pars Distalis, Hyperplasia	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
Thyroid Gland	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
Follicle, Hypertrophy	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Follicular Cel, Hyperplasia	9	9	9	9	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
Inflammation, Chronic	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
General Body System																													
NONE																													
Genital System																													
Clitoral Gland				+			+			+		+		+					M	+	+					+		+	
Ovary				+			+			+		A		+					+	+	+					+		+	
Angiectasis																						1							
Cyst																													
Hematocyst															X														X
Hemorrhage																					4								
Uterus				+			+			+		+		+					+	+	+					+		+	
Hemorrhage																					4								
Hyperplasia, Cystic																					4								
Hyperplasia, Cystic, Glandular				3			4			4				3					3		3					4		4	
Hematopoietic System																													
Bone Marrow				+			+			+		+		+					+	+	+					+		+	
Myelofibrosis				1			1												1		2								1

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:34
 First Dose M/F: NA / NA
 Lab: TSI MASON

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

Lymph Node																																		
Lymph Node, Mandibular					+		+		+		+		+							+	+	+						+		+				
Lymph Node, Mesenteric					+		+		+		A		+							+	+	+						+		+				
Spleen					+		+		+		+		+							+	+	+						+		+				
Hematopoietic Cell Proliferation																						4												
Thymus					+		+		+		+		+							+	+	+						+		+				
Cyst																																		
Ectopic Parathyroid Gland																																		X
Integumentary System																																		
Mammary Gland					+		+		+		+		+							+	+	+						+		+				
Skin					+		+		+		+		+							+	+	+						+		+				
Subcut Tiss, Hemorrhage																																		
Musculoskeletal System																																		
Bone					+		+		+		+		+							+	+	+						+		+				
Skeletal Muscle																																		
Nervous System																																		
Brain					+		+		+		+		+							+	+	+						+		+				
Demyelination																																		
Mineralization											1																						1	
Thrombosis																																		
Respiratory System																																		

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:34
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	7	7	4	7	7	4	7	7	4	7	1	7	4	7	7	7	7	4	5	4	7	7	7	7	4	7	4	7
0 MG/KG	3	3	3	6	3	2	6	3	3	6	3	9	3	6	3	3	3	3	6	9	6	3	3	0	3	3	6	3	3
	6	6	6	2	6	2	2	6	6	2	5	1	6	2	6	6	6	6	2	5	2	6	6	6	6	6	2	6	6
	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	0	0	0	0	0	0
	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	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	1	2	3	4

Respiratory System

Lung				+			+			+		+									+	+	+				+		+
Alveolar Epith, Hyperplasia																													
Congestion																													
Hemorrhage																													
Hemorrhage																													
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Experiment Number: 05069-09
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:35
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	B6C3F1 Mouse Female 0 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	
ANIMAL ID	7	7	6	7	7	7	7	4	7	5	7	7	7	4	5	6	7	7	7	6	7	5	7	7	0	0	7	7	7
	3	3	0	3	3	3	3	6	3	2	3	3	3	6	6	1	3	3	3	8	3	4	3	3	9	7	3	3	3
	6	6	5	6	6	6	6	2	6	9	6	6	6	2	8	2	6	6	6	2	6	3	6	6	4	8	6	6	6
Inflammation, Chronic	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
Salivary Glands	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
Hypoplasia	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Infiltration Cellular, Lymphocyte	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Stomach, Forestomach	7	8	9	0	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
Stomach, Glandular																													
Erosion																													
Mineralization																													
Cardiovascular System																													
Heart																													
Cardiomyopathy																													
Endocrine System																													
Adrenal Gland																													
Capsule, Hyperplasia																													
Adrenal Gland, Cortex																													
Focal Cellular Change																													
Adrenal Gland, Medulla																													
Hyperplasia																													
Islets, Pancreatic																													
Hyperplasia																													
Parathyroid Gland																													
Pituitary Gland																													

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:35
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Female 0 MG/KG	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	0	0	0	0
ANIMAL ID	7	7	6	7	7	7	7	4	7	5	7	7	7	4	5	6	7	7	7	6	7	5	7	7	0	0	7	7	7
	3	3	0	3	3	3	3	6	3	2	3	3	3	6	6	1	3	3	3	8	3	4	3	3	9	7	3	3	3
	6	6	5	6	6	6	6	2	6	9	6	6	6	2	8	2	6	6	2	6	2	6	3	6	6	4	8	6	6
Pars Distalis, Hyperplasia	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
Thyroid Gland	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
Follicle, Hypertrophy	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Follicular Cel, Hyperplasia	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Inflammation, Chronic	7	8	9	0	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
General Body System																													
NONE																													
Genital System																													
Clitoral Gland				+				+	+					+	+	+					+				+		+	+	
Ovary				+				+	+					+	+	+					+				+		+	+	
Angiectasis																													
Cyst				X																									
Hematocyst																X													
Hemorrhage																													
Uterus				+				+	+					+	+	+					+				+		+	+	
Hemorrhage																													
Hyperplasia, Cystic																													
Hyperplasia, Cystic, Glandular				1																									
Hematopoietic System																													
Bone Marrow				+				+	+					+	+	+					+				+		+	+	
Myelofibrosis				2				1	1																				

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:35
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
0 MG/KG

ANIMAL ID

*TOTALS

Alimentary System

Esophagus	18		
Gallbladder	16		
Intestine Large, Cecum	18		
Intestine Large, Colon	17		
Intestine Large, Rectum	19		
Intestine Small, Duodenum	17		
Intestine Small, Ileum	16		
Intestine Small, Jejunum	17		
Liver	19		
Fatty Change	1	2.0	
Hematopoietic Cell Proliferation	1	1.0	
Hyperplasia	1	2.0	
Mixed Cell Focus	1		
Necrosis	1	2.0	
Mesentery	3		
Fat, Necrosis	3	2.3	
Hemorrhage	1	2.0	
Pancreas	18		
Acinus, Atrophy	3	1.0	
Cyst	1		
Inflammation, Acute	1	3.0	
Inflammation, Chronic	1	2.0	

* ..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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:35
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
0 MG/KG

	ANIMAL ID		
		*TOTALS	
Salivary Glands		19	
Hypoplasia		1	4.0
Infiltration Cellular, Lymphocyte		1	3.0
Stomach, Forestomach		19	
Stomach, Glandular		18	
Erosion		1	2.0
Mineralization		1	1.0
Cardiovascular System			
Heart		19	
Cardiomyopathy		6	1.3
Endocrine System			
Adrenal Gland		19	
Capsule, Hyperplasia		19	1.6
Adrenal Gland, Cortex		19	
Focal Cellular Change		1	1.0
Adrenal Gland, Medulla		19	
Hyperplasia		1	1.0
Islets, Pancreatic		18	
Hyperplasia		9	1.7
Parathyroid Gland		13	
Pituitary Gland		17	
Pars Distalis, Hyperplasia		4	1.0
Thyroid Gland		19	

* ..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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:35
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
0 MG/KG

ANIMAL ID	*TOTALS	
Follicle, Hypertrophy	6	1.3
Follicular Cel, Hyperplasia	1	1.0
Inflammation, Chronic	1	1.0
General Body System		
NONE		
Genital System		
Clitoral Gland	18	
Ovary	18	
Angiectasis	1	1.0
Cyst	1	
Hematocyst	3	
Hemorrhage	1	4.0
Uterus	19	
Hemorrhage	1	4.0
Hyperplasia, Cystic	5	2.4
Hyperplasia, Cystic, Glandular	10	3.4
Hematopoietic System		
Bone Marrow	19	
Myelofibrosis	8	1.3
Lymph Node	1	
Lymph Node, Mandibular	19	
Lymph Node, Mesenteric	18	

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:35
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
0 MG/KG

	ANIMAL ID	*TOTALS	
Spleen		19	
Hematopoietic Cell Proliferation		4	3.3
Thymus		19	
Cyst		1	
Ectopic Parathyroid Gland		3	
Integumentary System			
Mammary Gland		19	
Skin		19	
Subcut Tiss, Hemorrhage		1	3.0
Musculoskeletal System			
Bone		19	
Skeletal Muscle		1	
Nervous System			
Brain		19	
Demyelination		1	3.0
Mineralization		5	1.0
Thrombosis		1	1.0
Respiratory System			
Lung		19	
Alveolar Epith, Hyperplasia		1	2.0
Congestion		1	2.0
Hemorrhage		5	1.0

* ..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

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2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:35
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
0 MG/KG

	ANIMAL ID	<u>*TOTALS</u>	
Nose		19	
Foreign Body		1	1.0
Glands, Inflammation, Acute		5	1.0
Lumen, Inflammation, Acute		1	1.0
Trachea		19	
Special Senses System			
NONE			
Urinary System			
Kidney		19	
Cortex, Mineralization		1	1.0
Nephropathy		2	1.0
Nephropathy, Chronic		2	1.5
Renal Tubule, Necrosis		1	1.0
Urinary Bladder		18	
Infiltration Cellular, Lymphocyte		1	3.0

* ..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

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1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:36
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6.0 MG/K	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	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Uterus	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
Hemorrhage	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
Hyperplasia, Cystic	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Hyperplasia, Cystic, Glandular	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Hematopoietic System	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	1	2	3	4
Bone Marrow																													
Myelofibrosis																													
Lymph Node																													
Lymph Node, Mandibular																													
Lymph Node, Mesenteric																													
Spleen																													
Hematopoietic Cell Proliferation																													
Thymus																													
Cyst																													
Integumentary System																													
Mammary Gland																													
Skin																													
Inguinal, Inflammation, Chronic																													
Musculoskeletal System																													
Bone																													
Nervous System																													

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:36
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6.0 MG/K	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	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Brain	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
Mineralization	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
Respiratory System	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Lung	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Nose	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	1	2	3	4	5
Glands, Inflammation, Acute																														
Trachea																														
Special Senses System																														
NONE																														
Urinary System																														
Kidney																														
Nephropathy																														
Renal Tubule, Degeneration, Hyaline																														
Renal Tubule, Dilatation																														
Urinary Bladder																														

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:37
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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	
B6C3F1 Mouse Female	7	6	4	7	4	7	6	7	7	7	6	4	7	5	4	7	7	4	7	7	7	4	7	7	6	7	7	7	7	
6.0 MG/K	3	7	6	3	6	3	2	3	3	3	0	6	3	8	6	3	3	6	3	3	3	6	3	3	4	2	3	3	3	
	5	7	2	5	2	5	3	5	5	5	3	2	5	7	2	5	5	2	5	5	5	2	5	5	3	4	8	5	5	
	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	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	8	8	9	0	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
Uterus			+		+							+	+		+	+			+					+						
Hemorrhage												4																		
Hyperplasia, Cystic												4			2															
Hyperplasia, Cystic, Glandular				4		3						4			4				3						2					
Hematopoietic System																														
Bone Marrow			+		+							+	+		+	+			+					+						
Myelofibrosis													1											1						
Lymph Node																														
Lymph Node, Mandibular			+		+							+	+		+	+			+					+						
Lymph Node, Mesenteric			+		+							+	+		+	+			+					+						
Spleen			+		+							+	+		+	+			+					+						
Hematopoietic Cell Proliferation												4																		
Thymus			+		+							+	+		+	+			+					+						
Cyst			X																											
Integumentary System																														
Mammary Gland			+		+							+	+		+	+			+					+						
Skin			+		+							+	+		+	+			+					+						
Inguinal, Inflammation, Chronic												1																		
Musculoskeletal System																														
Bone			+		+							+	+		+	+			+					+						
Nervous System																														

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + ..Tissue examined microscopically
 X ..Lesion present
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 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:37
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	6	4	7	4	7	6	7	7	7	6	4	7	5	4	7	7	4	7	7	7	4	7	7	6	7	7	7	7
6.0 MG/K	3	7	6	3	6	3	2	3	3	3	0	6	3	8	6	3	3	6	3	3	3	6	3	3	4	2	3	3	3
	5	7	2	5	2	5	3	5	5	5	3	2	5	7	2	5	5	2	5	5	5	2	5	5	3	8	5	5	5
	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	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	7	8	9	0	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
Brain				+		+						+	+			+	+				+								
Mineralization				1								1	1																
Respiratory System																													
Lung				+		+						+	+		+	+			+										
Nose				+		+						+	+		+	+			+										
Glands, Inflammation, Acute				2		1						1	1						1										
Trachea				+		+						+	+		+	+			+										
Special Senses System																													
NONE																													
Urinary System																													
Kidney				+		+						+	+		+	+			+										
Nephropathy				1								1			1				1										
Renal Tubule, Degeneration, Hyaline																													
Renal Tubule, Dilatation																													
Urinary Bladder				+		+						+	+		+	+			+										

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:37
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
6.0 MG/K

ANIMAL ID	*TOTALS	
Alimentary System		
Esophagus	13	
Gallbladder	13	
Intestine Large, Cecum	13	
Intestine Large, Colon	13	
Intestine Large, Rectum	12	
Intestine Small, Duodenum	13	
Intestine Small, Ileum	12	
Intestine Small, Jejunum	13	
Liver	13	
Fatty Change	1	2.0
Mixed Cell Focus	1	
Mesentery	1	
Fat, Necrosis	1	2.0
Pancreas	13	
Acinus, Atrophy	3	1.3
Salivary Glands	13	
Stomach, Forestomach	13	
Stomach, Glandular	13	
Cardiovascular System		
Heart	13	
Cardiomyopathy	4	1.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:37
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
6.0 MG/K

	ANIMAL ID	*TOTALS	
Endocrine System			
Adrenal Gland		13	
Capsule, Hyperplasia		13	1.8
Adrenal Gland, Cortex		13	
Adrenal Gland, Medulla		13	
Islets, Pancreatic		13	
Hyperplasia		9	1.1
Parathyroid Gland		11	
Pituitary Gland		12	
Pars Distalis, Hyperplasia		3	1.3
Thyroid Gland		13	
Cyst		1	
Follicle, Hypertrophy		6	1.3
Follicular Cel, Hyperplasia		2	1.5
General Body System			
NONE			
Genital System			
Clitoral Gland		13	
Dilatation		1	2.0
Ovary		13	
Hematocyst		2	
Uterus		13	

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:37
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
6.0 MG/K

	ANIMAL ID	*TOTALS	
Hemorrhage		1	4.0
Hyperplasia, Cystic		2	3.0
Hyperplasia, Cystic, Glandular		10	3.3
Hematopoietic System			
Bone Marrow		13	
Myelofibrosis		3	1.0
Lymph Node		1	
Lymph Node, Mandibular		13	
Lymph Node, Mesenteric		13	
Spleen		13	
Hematopoietic Cell Proliferation		2	4.0
Thymus		12	
Cyst		1	
Integumentary System			
Mammary Gland		13	
Skin		13	
Inguinal, Inflammation, Chronic		1	1.0
Musculoskeletal System			
Bone		13	
Nervous System			
Brain		13	
Mineralization		5	1.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:37
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
6.0 MG/K

	ANIMAL ID	<u>*TOTALS</u>	
Respiratory System			
Lung		13	
Nose		13	
Glands, Inflammation, Acute		7	1.1
Trachea		13	
Special Senses System			
NONE			
Urinary System			
Kidney		13	
Nephropathy		5	1.0
Renal Tubule, Degeneration, Hyaline		1	3.0
Renal Tubule, Dilatation		1	3.0
Urinary Bladder		13	

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:38
 First Dose M/F: NA / NA
 Lab: TSI MASON

B6C3F1 Mouse Female 10.0 MG/KG	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	0	0	0	0		
ANIMAL ID	4	7	7	7	7	4	7	7	7	7	6	4	7	7	7	4	3	5	7	6	7	7	4	7	7	4	6	6	4		
	6	3	3	3	3	6	3	3	3	3	1	9	3	3	3	3	6	9	7	3	2	3	2	7	3	3	3	6	7	8	6
	2	5	5	5	5	2	0	5	5	5	1	2	5	5	5	2	3	6	5	3	5	7	7	5	5	5	2	2	8	2	
Parathyroid Gland	+					M					M	+				+	M	M					+				M		+		
Pituitary Gland	+					+					+	+				+	+	+					+				+		+		
Pars Distalis, Hyperplasia																															
Thyroid Gland	+					+					+	+				+	+	+					+				+		+		
Follicle, Hypertrophy	1										1																				
Follicular Cel, Hyperplasia																															
General Body System																															
NONE																															
Genital System																															
Clitoral Gland	+					+					+	+				+	+	+					+				+		+		
Ovary	+					+					+	M				+	+	+					+				+		+		
Angiectasis																															
Cyst	X										X								X												
Hematocyst																															
Uterus	+					+					+	+				+	+	+					+				+		+		
Hyperplasia, Cystic											3	3						4					3								
Hyperplasia, Cystic, Glandular	4					3										4										3			3		
Hematopoietic System																															
Bone Marrow	+					+					+	+				+	+	+					+				+		+		
Myelofibrosis																															
Lymph Node, Mandibular	+					+					+	+				+	+	+					+				+		+		

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + ..Tissue examined microscopically
 X ..Lesion present
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 1) Minimal 3) Moderate
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Experiment Number: 05069-09
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	B6C3F1 Mouse Female 10.0 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	
ANIMAL ID	4	7	7	7	7	4	7	7	7	7	6	4	7	7	7	4	3	5	7	6	7	7	4	7	7	4	6	6	4	
	6	3	3	3	3	6	3	3	3	3	1	9	3	3	3	6	9	7	3	2	3	2	7	3	3	3	6	7	8	6
	2	5	5	5	5	2	0	5	5	5	1	2	5	5	5	2	3	6	5	3	5	7	7	5	5	5	2	2	2	
Lymph Node, Mesenteric	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	
Hyperplasia, Reticulum Cell	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	
Infiltration Cellular	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	3	3	3	
Spleen	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Hematopoietic Cell Proliferation	6	7	8	9	0	1	2	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
Thymus	+					+						+	+																	
Cyst																														
Ectopic Parathyroid Gland																														
Integumentary System																														
Mammary Gland	+					+						+	+				+	+	+					+			+		+	
Skin	+					+						+	+				+	+	+					+			+		+	
Back, Acanthosis						1						1																		
Back, Inflammation, Chronic																														
Back, Ulcer																														
Fat, Subcut Tiss, Necrosis																														
Musculoskeletal System																														
Bone	+					+						+	+				+	+	+					+			+		+	
Inflammation, Chronic																														
Nervous System																														
Brain	+					+						+	+				+	+	+					+			+		+	
Hemorrhage																														

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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		
B6C3F1 Mouse Female	4	7	7	7	7	4	7	7	7	7	6	4	7	7	7	4	3	5	7	6	7	7	4	7	7	4	7	7	4		
10.0 MG/KG	6	3	3	3	3	6	3	3	3	3	1	9	3	3	3	3	6	9	7	3	2	3	2	7	3	3	3	6	7	8	6
	2	5	5	5	5	2	0	5	5	5	1	2	5	5	5	5	2	3	6	5	3	5	7	5	5	5	2	2	8	2	
	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	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	3	3	3	3	
	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	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	1	2	3	4	5	6
Mineralization											1	1																		1	
Respiratory System																															
Lung	+					+					+	+					+	+	+				+			+			+		
Nose	+					+					+	+					+	+	+				+			+			+		
Glands, Inflammation, Acute	1																													1	
Trachea	+					+					+	+					+	+	+				+			+			+		
Special Senses System																															
NONE																															
Urinary System																															
Kidney	+					+					+	+					+	+	+				+			+			+		
Nephropathy	1										1																1				
Nephropathy, Chronic																										1					
Urinary Bladder	+					+					+	+					+	+	+				+			+			+		

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	4	7	7	4	7	7	7	4	7	7	4	7	7	7	7	6	7	7	7	7	4	4	6	6	7	0		
10.0 MG/KG	0	6	3	3	6	3	2	3	6	3	3	6	3	3	3	3	5	3	3	2	3	3	5	6	2	0	3	0	
	1	2	5	5	2	5	1	5	2	5	5	2	5	5	5	5	4	5	5	2	5	5	2	6	8	5	9		
	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	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	3	3	3
	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	7	8	9	0	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

Alimentary System

Esophagus		+		+				+		+															+	+		+
Gallbladder		+		+				+		+															+	+		+
Intestine Large, Cecum		+		+				+		+															+	+		+
Intestine Large, Colon		+		+				+		+															+	+		+
Intestine Large, Rectum		+		+				+		+															+	+		+
Intestine Small, Duodenum		+		+				+		+															+	+		+
Intestine Small, Ileum		+		+				+		+															+	+		+
Inflammation, Acute																												
Intestine Small, Jejunum		+		+				+		+															+	+		+
Perforation																												
Liver		+		+				+		+															+	+		+
Clear Cell Focus																												
Eosinophilic Focus										X																		
Fatty Change																												
Hematopoietic Cell Proliferation										1																		
Hyperplasia																												
Mesentery																												
Fat, Necrosis																												
Pancreas		+		+				+		+															+	+		+
Acinus, Atrophy																												
Cyst																												

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	4	7	7	4	7	7	7	4	7	7	4	7	7	7	7	6	7	7	7	7	4	4	6	6	7	0	
10.0 MG/KG	0	6	3	3	6	3	2	3	6	3	3	6	3	3	3	3	5	3	3	2	3	3	5	6	2	0	3	0
	1	2	5	5	2	5	1	5	2	5	5	2	5	5	5	5	4	5	5	2	5	5	2	6	8	5	9	
	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	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	3	3
	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

Cytoplasmic Alteration																													
Inflammation, Acute																													
Inflammation, Chronic																													
Salivary Glands		+			+				+			+											+	+		+			
Stomach, Forestomach		+			+				+			+											+	+		+			
Inflammation, Chronic																													
Stomach, Glandular		+			+				+			+											+	+		+			
Cyst																													
Hemorrhage																													
Mineralization																													
Tooth																													
Abscess																													
Cardiovascular System																													
Heart		+			+				+			+											+	+		+			
Cardiomyopathy																													
Endocrine System																													
Adrenal Gland		+			+				+			+											+	+		+			
Capsule, Hyperplasia																													
		2			2				2			1											2	2		2			
Adrenal Gland, Cortex		+			+				+			+											+	+		+			
Adrenal Gland, Medulla		+			+				+			+											+	+		+			
Islets, Pancreatic		+			+				+			+											+	+		+			
Hyperplasia																													
		1			1				2			2											2			2			

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 1-4 ..Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 05069-09
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	4	7	7	4	7	7	7	4	7	7	4	7	7	7	7	6	7	7	7	7	4	4	6	6	7	0		
10.0 MG/KG	0	6	3	3	6	3	2	3	6	3	3	6	3	3	3	3	5	3	3	2	3	3	5	6	2	0	3	0	
	1	2	5	5	2	5	1	5	2	5	5	2	5	5	5	5	4	5	5	2	5	5	2	6	8	5	9		
	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	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	3	3	3
	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	7	8	9	0	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
Parathyroid Gland		+			+				+				M											+	+		+		
Pituitary Gland		+			+				+				+											+	+		+		
Pars Distalis, Hyperplasia																													
Thyroid Gland		+			+				+			+												+	+		+		
Follicle, Hypertrophy									1															1	1				
Follicular Cel, Hyperplasia																									1				
General Body System																													
NONE																													
Genital System																													
Clitoral Gland		+			+				+			+												+	+		+		
Ovary		+			+				+			+												+	+		+		
Angiectasis																													
Cyst		X											X																
Hematocyst																										X			
Uterus		+			+				+			+												+	+		+		
Hyperplasia, Cystic																													
Hyperplasia, Cystic, Glandular		3			4				4			4												3	3				
Hematopoietic System																													
Bone Marrow		+			+				+			+												+	+		+		
Myelofibrosis									1			1													1				
Lymph Node, Mandibular		+			+				+			+												+	+		+		

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 + ..Tissue examined microscopically
 X ..Lesion present
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 1) Minimal 3) Moderate
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Experiment Number: 05069-09
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014
 Time Report Requested: 01:27:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST	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
B6C3F1 Mouse Female	7	4	7	7	4	7	7	7	4	7	7	4	7	7	7	7	6	7	7	7	7	4	4	6	6	7	0	
10.0 MG/KG	0	6	3	3	6	3	2	3	6	3	3	6	3	3	3	3	5	3	3	2	3	3	5	6	2	0	3	0
	1	2	5	5	2	5	1	5	2	5	5	2	5	5	5	5	4	5	5	2	5	5	2	6	8	5	9	
	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	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	3	
	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
Lymph Node, Mesenteric			+		+				+				+										+	+		+		
Hyperplasia, Reticulum Cell																											2	
Infiltration Cellular																												
Spleen			+		+				+				+											+	+		+	
Hematopoietic Cell Proliferation																								4				
Thymus			+		M				+			+												+	+		+	
Cyst																											X	
Ectopic Parathyroid Gland									X																			
Integumentary System																												
Mammary Gland			+		+				+			+												+	+		+	
Skin			+		+				+			+												+	+		+	
Back, Acanthosis														2										2				
Back, Inflammation, Chronic																											1	
Back, Ulcer															1									2				
Fat, Subcut Tiss, Necrosis																												
Musculoskeletal System																												
Bone			+		+				+			+												+	+		+	
Inflammation, Chronic																											3	
Nervous System																												
Brain			+		+				+			+												+	+		+	
Hemorrhage																											2	

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 X ..Lesion present
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 M ..Missing tissue
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 1-4 ..Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:40
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
10.0 MG/KG

	ANIMAL ID	*TOTALS	
Alimentary System			
Esophagus		17	
Gallbladder		16	
Intestine Large, Cecum		16	
Intestine Large, Colon		16	
Intestine Large, Rectum		17	
Intestine Small, Duodenum		15	
Intestine Small, Ileum		16	
Inflammation, Acute		1	4.0
Intestine Small, Jejunum		16	
Perforation		1	
Liver		17	
Clear Cell Focus		3	
Eosinophilic Focus		1	
Fatty Change		1	2.0
Hematopoietic Cell Proliferation		1	1.0
Hyperplasia		1	2.0
Mesentery		1	
Fat, Necrosis		1	3.0
Pancreas		16	
Acinus, Atrophy		1	2.0
Cyst		1	
Cytoplasmic Alteration		1	1.0

* ..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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:40
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
10.0 MG/KG

ANIMAL ID	*TOTALS	
Inflammation, Acute	1	2.0
Inflammation, Chronic	1	2.0
Salivary Glands	17	
Stomach, Forestomach	17	
Inflammation, Chronic	1	1.0
Stomach, Glandular	17	
Cyst	1	
Hemorrhage	1	1.0
Mineralization	1	1.0
Tooth	2	
Abscess	1	1.0
Cardiovascular System		
Heart	17	
Cardiomyopathy	4	1.3
Endocrine System		
Adrenal Gland	17	
Capsule, Hyperplasia	17	1.9
Adrenal Gland, Cortex	17	
Adrenal Gland, Medulla	17	
Islets, Pancreatic	16	
Hyperplasia	12	1.7
Parathyroid Gland	11	
Pituitary Gland	17	

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:40
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
10.0 MG/KG

	ANIMAL ID		
		<u>*TOTALS</u>	
Pars Distalis, Hyperplasia		2	1.5
Thyroid Gland		17	
Follicle, Hypertrophy		5	1.0
Follicular Cel, Hyperplasia		1	1.0
General Body System			
NONE			
Genital System			
Clitoral Gland		17	
Ovary		16	
Angiectasis		1	1.0
Cyst		5	
Hematocyst		1	
Uterus		17	
Hyperplasia, Cystic		4	3.3
Hyperplasia, Cystic, Glandular		11	3.5
Hematopoietic System			
Bone Marrow		17	
Myelofibrosis		3	1.0
Lymph Node, Mandibular		17	
Lymph Node, Mesenteric		16	
Hyperplasia, Reticulum Cell		1	2.0
Infiltration Cellular		1	2.0

* ..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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:40
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
10.0 MG/KG

ANIMAL ID	*TOTALS	
Spleen	16	
Hematopoietic Cell Proliferation	2	3.5
Thymus	16	
Cyst	1	
Ectopic Parathyroid Gland	2	
Integumentary System		
Mammary Gland	17	
Skin	17	
Back, Acanthosis	4	1.5
Back, Inflammation, Chronic	1	1.0
Back, Ulcer	2	1.5
Fat, Subcut Tiss, Necrosis	1	2.0
Musculoskeletal System		
Bone	17	
Inflammation, Chronic	1	3.0
Nervous System		
Brain	17	
Hemorrhage	1	2.0
Mineralization	3	1.0
Respiratory System		
Lung	17	
Nose	17	

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+ ..Tissue examined microscopically

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:40
First Dose M/F: NA / NA
Lab: TSI MASON

DAY ON TEST

B6C3F1 Mouse Female
10.0 MG/KG

	ANIMAL ID		
		<u>*TOTALS</u>	
Glands, Inflammation, Acute		6	1.0
Trachea		17	
Special Senses System			
NONE			
Urinary System			
Kidney		17	
Nephropathy		6	1.0
Nephropathy, Chronic		2	1.0
Urinary Bladder		17	

**** 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