

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910850

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910858

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin - Back	Skin - Inguinal
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
		Accessory Spleen	
Mesentery			
Note: [ ACCESSORY SPLN ] TGLs = 1-3.1			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: [ LEUKEMIA MONUC ] TGLs = 1-3+3.1,2-3+3.1			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910859

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin - Back	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Mesentery	Fat	Necrosis	Mild
Note: [ NECROSIS ] TGLs = 1-16			
Pituitary Gland	Pars Distalis	Adenoma	
Testes	Interstit Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 23	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910863

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Parathyroid Gland

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
Note: [ ADENOMA ] TGLs = 1-8			
Testes	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Seminal Vesicle	Skin - Back	Skin - Inguinal	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Ear		Fibrosarcoma	
Note: [ FIBROSARC ] TGLs = 1-16			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910877

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Seminal Vesicle	Skin - Back	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

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**MISSING**

Lymph Node - Mandibular	Mammary Gland
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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-6.1			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910878

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Lymph Node	Mandibular	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 1-9			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin - Back	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Mesentery	Fat	Necrosis	Mild
Note: [ NECROSIS ] TGLs = 1-16			
Nose		Fungus	Mild
		Inflammation	Acute, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Urinary Bladder		Calculus Gross Observation	
		Calculus Micro Observation Only	
Note: [ CALCUS MIC OBS ] TGLs = 2-9			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910886

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-6.1			
Pancreas	Acinus	Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: [ ADENOMA ] TGLs = 2-8			
Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910889

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Seminal Vesicle	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Testes	Seminif Tub	Atrophy	Moderate

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 458

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Seminal Vesicle	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Kidney	Renal Tubule	Degeneration Nephropathy Fatty Change	Hyaline, Minimal Mild Focal, Mild
Liver			
Note: [ FATTY CHANGE ] TGLs = 2-6+6.1			
Pancreas	Acinus	Atrophy	Minimal
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ ADENOMA ] TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910969

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 73

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910973

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Seminal Vesicle	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
Note: [ FATTY CHANGE ] TGLs = 1-6+6.1			
Pancreas	Acinus	Atrophy	Minimal
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 79

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910979

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin - Inguinal	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
Note: [ FATTY CHANGE ] TGLs = 4-6+6.1			
Lung		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Mild
Note: [ ACANTHOSIS ] TGLs = 1-15+15.1			
Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-3 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ ADENOMA ] TGLs = 2-7			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910983

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Preputial Gland  
Skin - Inguinal  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**OBSERVATIONS**

Heart  
Kidney  
  
Liver  
Note: [ HDN ] TGLs = 3-6  
Pancreas  
Pituitary Gland

Renal Tubule  
  
  
Acinus  
Pars Distalis  
Pars Distalis

Cardiomyopathy  
Degeneration  
Nephropathy  
Hepatodiaphragmatic Nodule  
  
Atrophy  
Adenoma  
Angiectasis

Mild  
Hyaline, Minimal  
Mild  
  
Mild

Note: [ ADENOMA ] TGLs = 2-8  
Skin

Back

Acanthosis  
Cyst Epithelial Inclusion

Minimal

Note: [ CYST EPITH INC ] TGLs = 1-10.1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910996

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin - Inguinal	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
Note: [ LEUKEMIA MONUC ] TGLs = 3-6			
Lung		Leukemia Mononuclear	
Nose		Foreign Body	Minimal
		Inflammation	Acute, Mild
Note: PLANT MATERIAL IS FOREIGN BODY			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Back	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
Note: [ LEUKEMIA MONUC ] TGLs = 2-3			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ ADENOMA ] TGLs = 1-7			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 910999

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Preputial Gland
Prostate	Seminal Vesicle	Skin - Back	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Parathyroid Gland

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
Note: [ FATTY CHANGE ] TGLs = 1-6+6.1			
Nose		Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 458

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Skin - Inguinal  
Thymus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Preputial Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Prostate  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Heart  
Kidney  
Liver  
Salivary Glands  
Skin  
Testes

Duct  
Back  
Interstit Cell

Cardiomyopathy  
Nephropathy  
Fatty Change  
Metaplasia  
Acanthosis  
Hyperplasia

Minimal  
Mild  
Focal, Mild  
Squamous, Minimal  
Minimal  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 110	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 458
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911010

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
Skin	Back	Acanthosis	Minimal
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 111

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911011

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Preputial Gland	Prostate	Seminal Vesicle	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Urinary Bladder		Calculus Gross Observation	
		Calculus Micro Observation Only	

Note: [ CALCUS MIC OBS ] TGLs = 1-9

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910906

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland	Pituitary Gland
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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910912

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Mild
Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Necrosis	Minimal
Lung		Hemorrhage	Mild
Nose		Fungus	Mild
		Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 100 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Minimal
Urinary Bladder		Calculus Gross Observation	
		Calculus Micro Observation Only	

Note: [ CALCUS MIC OBS ] TGLs = 1-9

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910922

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney	Renal Tubule	Degeneration Nephropathy	Hyaline, Minimal Mild
Liver		Fatty Change	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910926

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Thymus

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Hepatodiaphragmatic Nodule	
Note: [ BASOPH FOCUS ] TGLs = 2-6			
Note: [ HDN ] TGLs = 1-6.1			
Lung		Hemorrhage	Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Inflammation	Acute, Mild
	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910928

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
Note: [ BASOPH FOCUS ] TGLs = 2-6			
Mesentery		Accessory Spleen	
Note: [ ACCESSORY SPLN ] TGLs = 1-3			
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 151

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 910931

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Seminal Vesicle	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Thymoma Benign	
Thyroid Gland	C Cell	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 100 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Mild
Liver		Fatty Change	Focal, Mild
		Mixed Cell Focus	
Skin	Back	Acanthosis	Minimal
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 100 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Preputial Gland  
Skin - Back  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Prostate  
Skin - Inguinal  
Thymus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Salivary Glands  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Heart  
Kidney  
  
Liver  
Pancreas  
Pituitary Gland  
Testes

Renal Tubule  
  
Acinus  
Pars Distalis  
Interstitial Cell  
Interstitial Cell

Cardiomyopathy  
Degeneration  
Nephropathy  
Fatty Change  
Atrophy  
Hyperplasia  
Adenoma  
Hyperplasia

Mild  
Hyaline, Mild  
Mild  
Focal, Mild  
Minimal  
Moderate  
  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 100 MG/KG

DISP: Scheduled Sacrifice

HISTO: 910956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Prostate
Seminal Vesicle	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Preputial Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Moderate
Liver		Fatty Change	Focal, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: [ ADENOMA ] TGLs = 1-8			
Salivary Glands	Duct	Metaplasia	Squamous, Minimal
Skin	Back	Acanthosis	Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 208

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911033

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Note: [ BASOPH FOCUS ] TGLs = 1-6			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 209	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911034

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 210	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911035

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin - Back	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

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**OBSERVATIONS**

Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Stomach	Glandular	Erosion	Minimal
	Glandular	Hyperplasia	Minimal
	Glandular	Metaplasia	Minimal

[ Erosion TGLS = 1-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 228

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911053

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Note: [ BASOPH FOCUS ] TGLs = 2-6			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: [ ANGIECTASIS ] TGLs = 1-8			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 230	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911055

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

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**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
		Mixed Cell Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 237

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911062

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin - Inguinal  
Thymus  
Uterus

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Salivary Glands  
Stomach - Forestomach  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin - Back  
Stomach - Glandular  
Urinary Bladder

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10

**Test Type:** CHRONIC

**Route:** DERMAL,SOLUTION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 01:28:47

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

**ANIMAL ID:** 250

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911075

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
		Mixed Cell Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 251	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911076

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

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**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 254

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911079

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin - Back  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Skin - Inguinal  
Thymus  
Uterus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Heart  
Kidney  
  
Liver

Cortex

Cardiomyopathy  
Mineralization  
Nephropathy  
Basophilic Focus  
Eosinophilic Focus

Mild  
Mild  
Minimal

Note: [ EOSIN FOCUS ] TGLs = 1-6.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911148

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Skin	Back	Acanthosis	Minimal
Uterus		Polyp Stromal	

[ Polyp Stromal TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 9111160

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Brain		Astrocytoma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: [ FIBROADENOMA ] TGLs = 2-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: [ ADENOMA ] TGLs = 1-8			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney	Cortex	Mineralization	Mild
		Nephropathy	Mild
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911172

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

**OBSERVATIONS**

Clitoral Gland		Adenoma	
Note: [ ADENOMA ] TGLs = 1-10			
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Mild
Skin	Back	Acanthosis	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Back	Skin - Inguinal	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild

Note: [ ANGIECTASIS ] TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014

Time Report Requested: 01:28:47

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 60 MG/KG

DISP: Scheduled Sacrifice

HISTO: 911178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin	Back	Acanthosis	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 295	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911180

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

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**OBSERVATIONS**

Kidney	Cortex	Mineralization	Mild
		Nephropathy	Minimal
Ovary		Cyst	
Note: [ CYST ] TGLs = 1-7			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin	Back	Acanthosis	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 297

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 60 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911182

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Skin - Back	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Liver		Basophilic Focus	
Ovary		Cyst	
Note: [ CYST ] TGLs = 2-7			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: [ HYPERPLASIA ] TGLs = 3-8			
Uterus		Dilatation	Mild
Note: [ DILATATION ] TGLs = 1-7			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 304	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 60 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911189

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin	Back	Acanthosis	Minimal
Thyroid Gland	Follicle	Cyst	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 316	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911081

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

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**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 324

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911089

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-15 ]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Skin	Back	Acanthosis	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 327	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911092

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

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**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Note: [ ADENOMA ] TGLs = 1-8			
Skin	Back	Acanthosis	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 328

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911093

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-6.1			
Note: [ EOSIN FOCUS ] TGLs = 2-6			
Nose			
Note: BLOOD IN NASAL CAVITY			
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 348

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911113

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Mild
		Nephropathy	Minimal
Mesentery	Fat	Inflammation	Chronic Active, Moderate
Note: [ INFLAMMATION ] TGLs = 1-15			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin	Back	Acanthosis	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 349

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911114

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin - Inguinal	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	
Ovary		Cyst	
[ Cyst TGLS = 2-7 ]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: [ ADENOMA ] TGLs = 3-8			
Skin	Back	Acanthosis	Minimal
Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 351

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 100 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:** 911116

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**OBSERVATIONS**

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-6.1			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
Skin	Back	Acanthosis	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 355	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911120

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Inguinal
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Skin	Back	Acanthosis	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05069-10  
**Test Type:** CHRONIC  
**Route:** DERMAL,SOLUTION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:28:47  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 359	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 911124

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05069-10  
Test Type: CHRONIC  
Route: DERMAL,SOLUTION  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:28:47  
First Dose M/F: NA / NA  
Lab: TSI MASON

ANIMAL ID: 366 TRT#: 6 SEX: Female DAY ON TEST: 457  
DOSE: 100 MG/KG DISP: Scheduled Sacrifice HISTO: 911131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin - Back
Skin - Inguinal	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Eye	Lens	Cataract	Mild
Note: [ CATARACT ] TGLs = 1-15			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Cortex	Mineralization	Mild
		Nephropathy	Minimal
[ Cyst TGLS = 2-4+4.1 ]			
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 3-6.1			
Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

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\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE