

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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

**CAS Number:** 147-47-7

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

**Time Report Requested:** 01:39:34

**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

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 1,2-DIHYDRO-2,2,4-**

**MALE RAT**

**Organ**

Lung

Pituitary Gland: Pars Distalis

Salivary Glands: Duct

Skin: Back

**FEMALE RAT**

**Organ**

Liver

Pancreas: Acinus

Skin: Back

**Morphology**

Hemorrhage

Cyst

Metaplasia

Acanthosis

**Morphology**

Hepatodiaphragmatic Nodule

Mixed Cell Focus

Atrophy

Acanthosis

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL(a)	9/10 (90%)	9/10 (90%)	9/10 (90%)	
POLY-3 RATE (b)	9/10.00	9/10.00	9/10.00	
POLY-3 PERCENT (g)	90%	90%	90%	
INT SACRIFICE 1	9/10 (90%)	9/10 (90%)	9/10 (90%)	
TERMINAL (d)	9/10 (90%)	9/10 (90%)	9/10 (90%)	
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.663	P=0.760	P=0.760	
POLY 1.5	P=0.663	P=0.760	P=0.760	
POLY 6	P=0.663	P=0.760	P=0.760	
COCH-ARM / FISHERS	P=0.672	P=0.763N	P=0.763N	
MAX-ISO-POLY-3	P=0.668N	P=1.000	P=1.000	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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Route: DERMAL,SOLUTION  
Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Kidney</b>				
<b>Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL(a)	10/10 (100%)	10/10 (100%)	10/10	(100%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	
POLY-3 PERCENT (g)	100%	100%	100%	
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)	10/10	(100%)
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10	(100%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	
POLY 1.5	(e)	(e)	(e)	
POLY 6	(e)	(e)	(e)	
COCH-ARM / FISHERS	(e)	(e)	(e)	
MAX-ISO-POLY-3	(e)	(e)	(e)	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Kidney: Cortex</b>				
<b>Mineralization</b>				
<b>LESION RATES</b>				
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	
POLY-3 PERCENT (g)	0%	0%	0%	
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)	
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	
FIRST INCIDENCE	---	---	---	
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	
POLY 1.5	(n)	(n)	(n)	
POLY 6	(n)	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	(n)	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS

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DOSE	0 MG/KG	60 MG/KG	MALE
			100 MG/KG
<b>Kidney: Renal Tubule Degeneration Hyaline</b>			
<b>LESION RATES</b>			
OVERALL(a)	9/10 (90%)	6/10 (60%)	10/10 (100%)
POLY-3 RATE (b)	9/10.00	6/10.00	10/10.00
POLY-3 PERCENT (g)	90%	60%	100%
INT SACRIFICE 1	9/10 (90%)	10/10 (100%)	6/10 (60%)
TERMINAL (d)	9/10 (90%)	6/10 (60%)	10/10 (100%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.517	P=0.148N	P=0.500
POLY 1.5	P=0.517	P=0.148N	P=0.500
POLY 6	P=0.517	P=0.148N	P=0.500
COCH-ARM / FISHERS	P=0.516	P=0.152N	P=0.500
MAX-ISO-POLY-3	P=0.075	P=0.059N	P=0.159
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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Route: DERMAL,SOLUTION  
Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

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Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
Liver				
Basophilic Focus				
LESION RATES				
OVERALL(a)	2/10 (20%)	1/10 (10%)	3/10 (30%)	
POLY-3 RATE (b)	2/10.00	1/10.00	3/10.00	
POLY-3 PERCENT (g)	20%	10%	30%	
INT SACRIFICE 1	2/10 (20%)	3/10 (30%)	1/10 (10%)	
TERMINAL (d)	2/10 (20%)	1/10 (10%)	3/10 (30%)	
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)	
STATISTICAL TESTS				
POLY 3	P=0.457	P=0.500N	P=0.500	
POLY 1.5	P=0.457	P=0.500N	P=0.500	
POLY 6	P=0.457	P=0.500N	P=0.500	
COCH-ARM / FISHERS	P=0.456	P=0.500N	P=0.500	
MAX-ISO-POLY-3	P=0.293	P=0.274N	P=0.311	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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Route: DERMAL,SOLUTION  
Species/Strain: Rat/F 344/N

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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CAS Number: 147-47-7

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
Liver				
Clear Cell Focus				
<b>LESION RATES</b>				
OVERALL(a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	
POLY-3 PERCENT (g)	0%	10%	0%	
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	1/10 (10%)	
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	
FIRST INCIDENCE	---	458(T)(I)	---	
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	
POLY 1.5	(n)	(n)	(n)	
POLY 6	(n)	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	(n)	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				



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 Route: DERMAL,SOLUTION  
 Species/Strain: Rat/F 344/N

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 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Liver</b>			
<b>Fatty Change Focal</b>			
<b>LESION RATES</b>			
OVERALL(a)	10/10 (100%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	100%	90%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)	9/10 (90%)
TERMINAL (d)	10/10 (100%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.715N	P=0.500N	(e)
POLY 1.5	P=0.715N	P=0.500N	(e)
POLY 6	P=0.715N	P=0.500N	(e)
COCH-ARM / FISHERS	P=0.718N	P=0.500N	(e)
MAX-ISO-POLY-3	P=0.377	P=0.159N	(e)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Liver</b>			
<b>Hepatodiaphragmatic Nodule</b>			
<b>LESION RATES</b>			
OVERALL(a)	2/10 (20%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	20%	10%	10%
INT SACRIFICE 1	2/10 (20%)	1/10 (10%)	1/10 (10%)
TERMINAL (d)	2/10 (20%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.385N	P=0.500N	P=0.500N
POLY 1.5	P=0.385N	P=0.500N	P=0.500N
POLY 6	P=0.385N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.380N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.369N	P=0.274N	P=0.274N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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

CAS Number: 147-47-7

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First Dose M/F: NA / NA

Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	
POLY-3 PERCENT (g)	0%	0%	10%	
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	0/10 (0%)	
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	
FIRST INCIDENCE	---	---	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	
POLY 1.5	(n)	(n)	(n)	
POLY 6	(n)	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	(n)	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Lung</b>			
<b>Hemorrhage</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	20%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.124	(e)	P=0.227
POLY 1.5	P=0.124	(e)	P=0.227
POLY 6	P=0.124	(e)	P=0.227
COCH-ARM / FISHERS	P=0.130	(e)	P=0.237
MAX-ISO-POLY-3	P=0.045*	(e)	P=0.067
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

Experiment Number: 05069-10  
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 Species/Strain: Rat/F 344/N

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Mesentery: Fat</b>			
<b>Necrosis</b>			
<b>LESION RATES</b>			
OVERALL(a)	2/3 (67%)	0/0 (0%)	0/1 (0%)
POLY-3 RATE (b)	2/3.00	0/0.00	0/1.00
POLY-3 PERCENT (g)	66.7%	0%	0%
INT SACRIFICE 1	2/3 (67%)	0/1 (0%)	0/0 (0%)
TERMINAL (d)	2/3 (67%)	0/0 (0%)	0/1 (0%)
FIRST INCIDENCE	458(T)(l)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.322N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.207N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Nose</b>			
<b>Inflammation Acute</b>			
<b>LESION RATES</b>			
OVERALL(a)	1/10 (10%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	2/10.00	1/10.00
POLY-3 PERCENT (g)	10%	20%	10%
INT SACRIFICE 1	1/10 (10%)	1/10 (10%)	2/10 (20%)
TERMINAL (d)	1/10 (10%)	2/10 (20%)	1/10 (10%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.615	P=0.500	P=0.760
POLY 1.5	P=0.615	P=0.500	P=0.760
POLY 6	P=0.615	P=0.500	P=0.760
COCH-ARM / FISHERS	P=0.620	P=0.500	P=0.763N
MAX-ISO-POLY-3	P=0.517N	P=0.274	P=1.000
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Pancreas: Acinus</b>				
<b>Atrophy</b>				
<b>LESION RATES</b>				
OVERALL(a)	4/10 (40%)	5/10 (50%)	5/10 (50%)	
POLY-3 RATE (b)	4/10.00	5/10.00	5/10.00	
POLY-3 PERCENT (g)	40%	50%	50%	
INT SACRIFICE 1	4/10 (40%)	5/10 (50%)	5/10 (50%)	
TERMINAL (d)	4/10 (40%)	5/10 (50%)	5/10 (50%)	
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.422	P=0.500	P=0.500	
POLY 1.5	P=0.422	P=0.500	P=0.500	
POLY 6	P=0.422	P=0.500	P=0.500	
COCH-ARM / FISHERS	P=0.418	P=0.500	P=0.500	
MAX-ISO-POLY-3	P=0.463	P=0.334	P=0.334	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Angiectasis</b>			
<b>LESION RATES</b>			
OVERALL(a)	3/10 (30%)	1/10 (10%)	3/9 (33%)
POLY-3 RATE (b)	3/10.00	1/10.00	3/9.00
POLY-3 PERCENT (g)	30%	10%	33.3%
INT SACRIFICE 1	3/10 (30%)	3/9 (33%)	1/10 (10%)
TERMINAL (d)	3/10 (30%)	1/10 (10%)	3/9 (33%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.614N	P=0.292N	P=0.626
POLY 1.5	P=0.614N	P=0.292N	P=0.626
POLY 6	P=0.614N	P=0.292N	P=0.626
COCH-ARM / FISHERS	P=0.617N	P=0.291N	P=0.630
MAX-ISO-POLY-3	P=0.363	P=0.138N	P=0.443
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Cyst</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	2/10 (20%)	3/9 (33%)
POLY-3 RATE (b)	0/10.00	2/10.00	3/9.00
POLY-3 PERCENT (g)	0%	20%	33.3%
INT SACRIFICE 1	0/10 (0%)	3/9 (33%)	2/10 (20%)
TERMINAL (d)	0/10 (0%)	2/10 (20%)	3/9 (33%)
FIRST INCIDENCE	---	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.054	P=0.227	P=0.074
POLY 1.5	P=0.054	P=0.227	P=0.074
POLY 6	P=0.054	P=0.227	P=0.074
COCH-ARM / FISHERS	P=0.057	P=0.237	P=0.087
MAX-ISO-POLY-3	P=0.039*	P=0.067	P=0.020*
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL(a)	5/10 (50%)	4/10 (40%)	3/9 (33%)
POLY-3 RATE (b)	5/10.00	4/10.00	3/9.00
POLY-3 PERCENT (g)	50%	40%	33.3%
INT SACRIFICE 1	5/10 (50%)	3/9 (33%)	4/10 (40%)
TERMINAL (d)	5/10 (50%)	4/10 (40%)	3/9 (33%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.327N	P=0.500N	P=0.398N
POLY 1.5	P=0.327N	P=0.500N	P=0.398N
POLY 6	P=0.327N	P=0.500N	P=0.398N
COCH-ARM / FISHERS	P=0.320N	P=0.500N	P=0.395N
MAX-ISO-POLY-3	P=0.345N	P=0.334N	P=0.246N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Salivary Glands: Duct Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL(a)	3/10 (30%)	7/10 (70%)	4/10 (40%)	
POLY-3 RATE (b)	3/10.00	7/10.00	4/10.00	
POLY-3 PERCENT (g)	30%	70%	40%	
INT SACRIFICE 1	3/10 (30%)	4/10 (40%)	7/10 (70%)	
TERMINAL (d)	3/10 (30%)	7/10 (70%)	4/10 (40%)	
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.348	P=0.082	P=0.500	
POLY 1.5	P=0.348	P=0.082	P=0.500	
POLY 6	P=0.348	P=0.082	P=0.500	
COCH-ARM / FISHERS	P=0.350	P=0.089	P=0.500	
MAX-ISO-POLY-3	P=0.181	P=0.032*	P=0.327	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	0 MG/KG	60 MG/KG	MALE	
			100	MG/KG
<b>Skin: Back</b>				
<b>Acanthosis</b>				
<b>LESION RATES</b>				
OVERALL(a)	0/10 (0%)	9/10 (90%)	8/10 (80%)	
POLY-3 RATE (b)	0/10.00	9/10.00	8/10.00	
POLY-3 PERCENT (g)	0%	90%	80%	
INT SACRIFICE 1	0/10 (0%)	8/10 (80%)	9/10 (90%)	
TERMINAL (d)	0/10 (0%)	9/10 (90%)	8/10 (80%)	
FIRST INCIDENCE	---	458(T)(I)	458(T)(I)	
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.000**	P=0.000**	P=0.000**	
POLY 1.5	P=0.000**	P=0.000**	P=0.000**	
POLY 6	P=0.000**	P=0.000**	P=0.000**	
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	
MAX-ISO-POLY-3	P=0.000**	P=0.000**	P=0.000**	
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Testes: Interstit Cell Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL(a)	6/10 (60%)	5/10 (50%)	9/10 (90%)
POLY-3 RATE (b)	6/10.00	5/10.00	9/10.00
POLY-3 PERCENT (g)	60%	50%	90%
INT SACRIFICE 1	6/10 (60%)	9/10 (90%)	5/10 (50%)
TERMINAL (d)	6/10 (60%)	5/10 (50%)	9/10 (90%)
FIRST INCIDENCE	458(T)(I)	458(T)(I)	458(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.161	P=0.500N	P=0.148
POLY 1.5	P=0.161	P=0.500N	P=0.148
POLY 6	P=0.161	P=0.500N	P=0.148
COCH-ARM / FISHERS	P=0.165	P=0.500N	P=0.152
MAX-ISO-POLY-3	P=0.062	P=0.334N	P=0.059
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Heart</b>			
<b>Cardiomyopathy</b>			
<b>LESION RATES</b>			
OVERALL(a)	6/10 (60%)	5/10 (50%)	8/10 (80%)
POLY-3 RATE (b)	6/10.00	5/10.00	8/10.00
POLY-3 PERCENT (g)	60%	50%	80%
INT SACRIFICE 1	6/10 (60%)	8/10 (80%)	5/10 (50%)
TERMINAL (d)	6/10 (60%)	5/10 (50%)	8/10 (80%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.304	P=0.500N	P=0.318
POLY 1.5	P=0.304	P=0.500N	P=0.318
POLY 6	P=0.304	P=0.500N	P=0.318
COCH-ARM / FISHERS	P=0.301	P=0.500N	P=0.314
MAX-ISO-POLY-3	P=0.179	P=0.334N	P=0.172
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Kidney</b>			
<b>Nephropathy</b>			
<b>LESION RATES</b>			
OVERALL(a)	10/10 (100%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	100%	80%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)	8/10 (80%)
TERMINAL (d)	10/10 (100%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.619N	P=0.227N	(e)
POLY 1.5	P=0.619N	P=0.227N	(e)
POLY 6	P=0.619N	P=0.227N	(e)
COCH-ARM / FISHERS	P=0.617N	P=0.237N	(e)
MAX-ISO-POLY-3	P=0.252	P=0.067N	(e)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Kidney: Cortex</b>			
<b>Mineralization</b>			
<b>LESION RATES</b>			
OVERALL(a)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)	10/10 (100%)
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Kidney: Renal Tubule Degeneration Hyaline</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Liver</b>			
<b>Basophilic Focus</b>			
<b>LESION RATES</b>			
OVERALL(a)	10/10 (100%)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	10/10.00	9/10.00	8/10.00
POLY-3 PERCENT (g)	100%	90%	80%
INT SACRIFICE 1	10/10 (100%)	8/10 (80%)	9/10 (90%)
TERMINAL (d)	10/10 (100%)	9/10 (90%)	8/10 (80%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.153N	P=0.500N	P=0.227N
POLY 1.5	P=0.153N	P=0.500N	P=0.227N
POLY 6	P=0.153N	P=0.500N	P=0.227N
COCH-ARM / FISHERS	P=0.150N	P=0.500N	P=0.237N
MAX-ISO-POLY-3	P=0.098N	P=0.159N	P=0.067N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
Liver			
Clear Cell Focus			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	0%	10%	20%
INT SACRIFICE 1	0/10 (0%)	2/10 (20%)	1/10 (10%)
TERMINAL (d)	0/10 (0%)	1/10 (10%)	2/10 (20%)
FIRST INCIDENCE	---	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.153	P=0.500	P=0.227
POLY 1.5	P=0.153	P=0.500	P=0.227
POLY 6	P=0.153	P=0.500	P=0.227
COCH-ARM / FISHERS	P=0.150	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.098	P=0.159	P=0.067
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
Liver			
Fatty Change Focal			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Liver</b>			
<b>Hepatodiaphragmatic Nodule</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	30%
INT SACRIFICE 1	0/10 (0%)	3/10 (30%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.040*	(e)	P=0.095
POLY 1.5	P=0.040*	(e)	P=0.095
POLY 6	P=0.040*	(e)	P=0.095
COCH-ARM / FISHERS	P=0.052	(e)	P=0.105
MAX-ISO-POLY-3	P=0.010**	(e)	P=0.025*
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Liver</b>			
<b>Mixed Cell Focus</b>			
<b>LESION RATES</b>			
OVERALL(a)	2/10 (20%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%
INT SACRIFICE 1	2/10 (20%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	457(T)(l)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.081N	P=0.227N	P=0.227N
POLY 1.5	P=0.081N	P=0.227N	P=0.227N
POLY 6	P=0.081N	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.086N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.045N*	P=0.067N	P=0.067N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
Lung			
Hemorrhage			
LESION RATES			
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Mesentery: Fat</b>			
<b>Necrosis</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/0 (0%)	0/0 (0%)	1/2 (50%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/2.00
POLY-3 PERCENT (g)	0%	0%	50%
INT SACRIFICE 1	0/0 (0%)	1/2 (50%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/2 (50%)
FIRST INCIDENCE	---	---	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Nose</b>			
<b>Inflammation Acute</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Ovary</b>			
<b>Cyst</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	2/10.00	1/10.00
POLY-3 PERCENT (g)	0%	20%	10%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/10 (0%)	2/10 (20%)	1/10 (10%)
FIRST INCIDENCE	---	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.331	P=0.227	P=0.500
POLY 1.5	P=0.331	P=0.227	P=0.500
POLY 6	P=0.331	P=0.227	P=0.500
COCH-ARM / FISHERS	P=0.328	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.190	P=0.067	P=0.159
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pancreas: Acinus</b>			
<b>Atrophy</b>			
<b>LESION RATES</b>			
OVERALL(a)	2/10 (20%)	6/10 (60%)	2/10 (20%)
POLY-3 RATE (b)	2/10.00	6/10.00	2/10.00
POLY-3 PERCENT (g)	20%	60%	20%
INT SACRIFICE 1	2/10 (20%)	2/10 (20%)	6/10 (60%)
TERMINAL (d)	2/10 (20%)	6/10 (60%)	2/10 (20%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.513	P=0.077	P=0.702
POLY 1.5	P=0.513	P=0.077	P=0.702
POLY 6	P=0.513	P=0.077	P=0.702
COCH-ARM / FISHERS	P=0.513	P=0.085	P=0.709N
MAX-ISO-POLY-3	P=0.229N	P=0.029*	P=1.000
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Angiectasis</b>			
<b>LESION RATES</b>			
OVERALL(a)	2/10 (20%)	5/10 (50%)	5/10 (50%)
POLY-3 RATE (b)	2/10.00	5/10.00	5/10.00
POLY-3 PERCENT (g)	20%	50%	50%
INT SACRIFICE 1	2/10 (20%)	5/10 (50%)	5/10 (50%)
TERMINAL (d)	2/10 (20%)	5/10 (50%)	5/10 (50%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.121	P=0.174	P=0.174
POLY 1.5	P=0.121	P=0.174	P=0.174
POLY 6	P=0.121	P=0.174	P=0.174
COCH-ARM / FISHERS	P=0.119	P=0.175	P=0.175
MAX-ISO-POLY-3	P=0.122	P=0.080	P=0.080
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Cyst</b>			
<b>LESION RATES</b>			
OVERALL(a)	8/10 (80%)	6/10 (60%)	7/10 (70%)
POLY-3 RATE (b)	8/10.00	6/10.00	7/10.00
POLY-3 PERCENT (g)	80%	60%	70%
INT SACRIFICE 1	8/10 (80%)	7/10 (70%)	6/10 (60%)
TERMINAL (d)	8/10 (80%)	6/10 (60%)	7/10 (70%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.390N	P=0.318N	P=0.500N
POLY 1.5	P=0.390N	P=0.318N	P=0.500N
POLY 6	P=0.390N	P=0.318N	P=0.500N
COCH-ARM / FISHERS	P=0.386N	P=0.314N	P=0.500N
MAX-ISO-POLY-3	P=0.337N	P=0.172N	P=0.311N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Pituitary Gland: Pars Distalis</b>			
<b>Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL(a)	8/10 (80%)	6/10 (60%)	7/10 (70%)
POLY-3 RATE (b)	8/10.00	6/10.00	7/10.00
POLY-3 PERCENT (g)	80%	60%	70%
INT SACRIFICE 1	8/10 (80%)	7/10 (70%)	6/10 (60%)
TERMINAL (d)	8/10 (80%)	6/10 (60%)	7/10 (70%)
FIRST INCIDENCE	457(T)(I)	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.390N	P=0.318N	P=0.500N
POLY 1.5	P=0.390N	P=0.318N	P=0.500N
POLY 6	P=0.390N	P=0.318N	P=0.500N
COCH-ARM / FISHERS	P=0.386N	P=0.314N	P=0.500N
MAX-ISO-POLY-3	P=0.337N	P=0.172N	P=0.311N
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
Time Report Requested: 01:39:34  
First Dose M/F: NA / NA  
Lab: TSI MASON

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
LAST REMOVAL AT 105 WEEKS

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Salivary Glands: Duct Metaplasia</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
 CAS Number: 147-47-7

Date Report Requested: 10/21/2014  
 Time Report Requested: 01:39:34  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)  
 LAST REMOVAL AT 105 WEEKS**

DOSE	FEMALE		
	0 MG/KG	60 MG/KG	100 MG/KG
<b>Skin: Back</b>			
<b>Acanthosis</b>			
<b>LESION RATES</b>			
OVERALL(a)	0/10 (0%)	5/10 (50%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	5/10.00	6/10.00
POLY-3 PERCENT (g)	0%	50%	60%
INT SACRIFICE 1	0/10 (0%)	6/10 (60%)	5/10 (50%)
TERMINAL (d)	0/10 (0%)	5/10 (50%)	6/10 (60%)
FIRST INCIDENCE	---	457(T)(I)	457(T)(I)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.002**	P=0.008**	P<0.001**
POLY 1.5	P=0.002**	P=0.008**	P<0.001**
POLY 6	P=0.002**	P=0.008**	P<0.001**
COCH-ARM / FISHERS	P=0.004**	P=0.016*	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P=0.000**
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 01:39:34  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (e) Value of statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (n) No statistics are calculated if all dose groups have fewer than two tumors.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

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