### Experiment Number:
05069-11

### Test Type:
INIT/PROMOT

### Route:
DOSED WATER

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

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

### CAS Number:
147-47-7

### Date Report Requested:
10/18/2014

### Time Report Requested:
16:25:43

### Lab:
TSI MASON

---

### DAY ON TEST

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2           | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

---

### Animal ID

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| 2         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

---

### *TOTALS*

**Liver**
- + + + + + + + + + + + + + + + + + +
- X

**Hepatocellular Adenoma**

---

### Alimentary System

- Liver: 20
- Hepatocellular Adenoma: 1

### Cardiovascular System

- NONE

### Endocrine System

- NONE

### General Body System

- NONE

### Genital System

- NONE

### Hematopoietic System

- NONE

### Integumentary System

- NONE

### Musculoskeletal System

- NONE

### Nervous System

- I ...

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 05069-11
Test Type: INIT/PROMOT
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/18/2014
Time Report Requested: 16:25:44
First Dose M/F: NA / NA
Lab: TSI MASON

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ
+ + + + + + + + + + + + + + + + + + + + 20

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
BLANK ..Not examined microscopically
I ..Insufficient tissue

Page 3
### Experiment Number: 05069-11
Test Type: INIT/PROMOT
Route: DOSED WATER
Species/Strain: Rat/F 344/N

---

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

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

---

Date Report Requested: 10/18/2014
Time Report Requested: 16:25:44

First Dose M/F: NA / NA
Lab: TSI MASON

---

**DAY ON TEST**

| ANIMAL ID | 0 | 1 | 9 | 9 | 0 | 0 | 2 | 1 | 0 | 1 | 9 | 8 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| F 344/N Rate Male DEN/ ACETONE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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---

**Alimentary System**

Liver: + + + + + + + + + + + + + + + + + + + + + + + 20

---

**Cardiovascular System**

NONE

---

**Endocrine System**

NONE

---

**General Body System**

NONE

---

**Genital System**

NONE

---

**Hematopoietic System**

NONE

---

**Integumentary System**

NONE

---

**Musculoskeletal System**

NONE

---

**Nervous System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

---

Page 4
**Experiment Number:** 05069-11  
**Test Type:** INIT/PROMOT  
**Route:** DOSED WATER  
**Species/Strain:** Rat/F 344/N

**Test Compound:** 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)  
**CAS Number:** 147-47-7  
**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 16:25:44  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

---

**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**

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*TOTALS
- Respiratory System: NONE
- Special Senses System: NONE
- Urinary System: NONE
- Systemic Lesions: Multiple Organ + + + + + + + + + + + + + + 20

---

*..Total animals with tissue examined microscopically; Total animals with tumor  
+..Tissue examined microscopically  
X..Lesion present  
I..Insufficient tissue  
M..Missing tissue  
A..Autolysis precludes evaluation  
BLANK..Not examined microscopically

---

Page 5
### P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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

---

**Experiment Number:** 05069-11  
**Test Type:** INIT/PROMOT  
**Route:** DOSED WATER  
**Species/Strain:** Rat/F 344/N

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 16:25:44  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

---

### F 344/N Rat Male  
**DEN/PB**

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*TOTALS*

### Alimentary System

- **Liver**
  - Hepatocellular Adenoma: + + + + + + + + + + + + + + + + 20
  - Hepatocellular Carcinoma: X X X X X

### Cardiovascular System

- **NONE**

### Endocrine System

- **NONE**

### General Body System

- **NONE**

### Genital System

- **NONE**

### Hematopoietic System

- **NONE**

### Integumentary System

- **NONE**

### Musculoskeletal System

- **NONE**

---

* ..Total animals with tissue examined microscopically; Total animals with tumor  
M ..Missing tissue  
+ ..Tissue examined microscopically  
A ..Autolysis precludes evaluation  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
### Experiment Number: 05069-11
### Test Type: INIT/PROMOT
### Route: DOSED WATER
### Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

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

**Date Report Requested:** 10/18/2014
**Time Report Requested:** 16:25:44
**First Dose M/F:** NA / NA
**Lab:** TSI MASON

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---

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + + + + + + 20

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

---

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
## Experiment Number: 05069-11
- **Test Type:** INIT/PROMOT
- **Route:** DOSED WATER
- **Species/Strain:** Rat/F 344/N

---

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

---

**Date Report Requested:** 10/18/2014
- **Time Report Requested:** 16:25:44
- **First Dose M/F:** NA / NA
- **Lab:** TSI MASON

---

### DAY ON TEST

| ANIMAL ID | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 3         | 8 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 |

---

### Tissue Examination:

- **Lesion Present:**
  - **Alimentary System:** Liver
  - **Cardiovascular System:** NONE
  - **Endocrine System:** NONE
  - **General Body System:** NONE
  - **Genital System:** NONE
  - **Hematopoietic System:** NONE
  - **Integumentary System:** NONE
  - **Musculoskeletal System:** NONE
  - **Nervous System:** NONE

- **Tissue Examined:**
  - **Total animals with tissue examined microscopically:** 20
  - **Total animals with tumor:** M
  - **Missing tissue:** A
  - **Autolysis precludes evaluation:** BLANK
  - **Not examined microscopically:** I

---

*Page 8*
### Respiratory System

NONE

### Special Senses System

NONE

### Urinary System

NONE

### Systemic Lesions

| Multiple Organ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
|                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
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| ANIMAL ID      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 0   |

*TOTALS

---

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically
Day on Test

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*TOTALS

**Alimentary System**

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**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**Day on Test**

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**Respiratory System**

*NONE*

**Special Senses System**

*NONE*

**Urinary System**

*NONE*

**Systemic Lesions**

| Multiple Organ | + + + + + + + + + + + + + + + + 20 |

---

*..Total animals with tissue examined microscopically; Total animals with tumor
+..Tissue examined microscopically
X..Lesion present
I..Insufficient tissue
M..Missing tissue
A..Autolysis precludes evaluation
BLANK..Not examined microscopically*
P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| SALINE/ ACETONE | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

**Alimentary System**

| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
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Experiment Number: 05069-11
Test Type: INIT/PROMOT
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/18/2014
Time Report Requested: 16:25:44
First Dose M/F: NA / NA
Lab: TSI MASON

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

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<tr>
<th>Day</th>
<th>F 344/N Rat Male</th>
<th>SALINE/ACETONE</th>
<th>ANIMAL ID</th>
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</tr>
</tbody>
</table>

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Page 13
Experiment Number: 05069-11
Test Type: INIT/PROMOT
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/18/2014
Time Report Requested: 16:25:44
First Dose M/F: NA / NA
Lab: TSI MASON

**TOTALS**

Alimentary System

Liver

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 05069-11
Test Type: INIT/PROMOT
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/18/2014
Time Report Requested: 16:25:45
First Dose M/F: NA / NA
Lab: TSI MASON

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| F 344/N Rat Male | 9 | 8 | 9 | 9 | 8 | 8 | 9 | 9 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ
+ + + + + + + + + + + + + + + + + + + + + + 20

***END OF MALE DATA***

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
** END OF REPORT **