

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                             |        |
|-----------------------------|--------|
| <b>C Number:</b>            | C54717 |
| <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>        | Male   |

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung

Bronchopneumonia, Acute

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_002

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Mesentery Nos

Calcification, Focal

Mesentery Nos

Necrosis, Fat

Lymph node

Mesenteric Lymph Node

Angiectasis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_004

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver

Angiectasis  
Fibrosis, Focal  
Necrosis, Nos  
Degeneration, Cystic

Thyroid

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Liver

Hepatocellular Adenoma

Hepatocellular Carcinoma

Lung

Bronchopneumonia, Acute

Hepatocellular Carcinoma, Metastatic

Skin

Hyperplasia, Alveolar Epithelium

Inflammation, Chronic Focal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_006

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Spleen  
Stomach

Hemangioma  
Cyst, Nos  
Inflammation, Acute Suppurative

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lymph node

Mesenteric Lymph Node

Angiectasis

Spleen

Hematopoiesis

Thyroid

Hyperplasia, Follicular Cell

Unspecified

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_008

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                 |                          |
|-----------------|--------------------------|
| Liver           | Hepatocellular Adenoma   |
|                 | Hepatocellular Carcinoma |
| Preputial gland | Cystic Ducts             |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Lung

Hepatocellular Carcinoma  
Bronchopneumonia, Acute  
Hyperplasia, Alveolar Epithelium

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Accidentally Killed

**HISTO:**

---

**OBSERVATIONS**

|       |   |
|-------|---|
| Heart | Lymphocytic Inflammatory Infiltrate                     |
| Liver | Hepatocellular Carcinoma<br>Necrosis, Zonal             |
| Lung  | Congestion, Nos<br>Hepatocellular Carcinoma, Metastatic |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Jejunum

Adenocarcinoma, Nos

Liver

Jejunum

Inflammation, Acute Suppurative

Lung

Hepatocellular Adenoma

Spleen

Bronchopneumonia, Acute

Thyroid

Hematopoiesis

Degeneration, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver  
Stomach

Mucosa

Hepatocellular Carcinoma  
Hyperplasia, Epithelial  
Inflammation, Acute Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Accidentally Killed

**HISTO:**

---

**OBSERVATIONS**

Lung

Hyperplasia, Adenomatous

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Accidentally Killed

**HISTO:**

---

**OBSERVATIONS**

|             |                                    |   |
|-------------|------------------------------------|---|
| Liver       |                                    | Hepatocellular Carcinoma<br>Necrosis, Focal             |
| Lung        |                                    | Congestion, Nos<br>Hepatocellular Carcinoma, Metastatic |
| Unspecified | Mediastinum Nos<br>Mediastinum Nos | Foreign Body, Nos<br>Inflammation, Acute                |

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Thyroid

Cystic Follicles

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Preputial gland

Cystic Ducts

Stomach

Hyperplasia, Nos

Mucosa

Hyperplasia, Epithelial

Mucosa

Inflammation, Acute Suppurative

Unspecified

Multiple Organs Nos

Squamous Cell Papilloma

Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_019

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland

Hardarian Gland

Adenoma, Nos

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_020

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                 |                       |                                      |
|-----------------|-----------------------|--------------------------------------|
| Lung            |                       | Alveolar/Bronchiolar Adenoma         |
| Lymph node      | Mesenteric Lymph Node | Lymphoma, Histiocytic-Malignant Type |
| Preputial gland |                       | Cystic Ducts                         |
| Unspecified     | Mediastinum Nos       | Foreign Body, Nos                    |
|                 | Mediastinum Nos       | Inflammation, Acute                  |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung  
Preputial gland  
Stomach

Alveolar/Bronchiolar Adenoma  
Cystic Ducts  
Hyperplasia, Epithelial  
Squamous Cell Papilloma

Mucosa

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Stomach  
Unspecified

Mucosa  
Multiple Organs Nos

Squamous Cell Papilloma  
Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_023

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Stomach

Mucosa

Hyperplasia, Epithelial  
Inflammation, Chronic Focal  
Follicular-Cell Adenoma

Thyroid

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Stomach

Mucosa

Hyperplasia, Epithelial

Inflammation, Chronic Focal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_025

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Liver  
Pancreas  
Preputial gland

Jejunum  
  
Islets

Adenocarcinoma, Nos  
Hepatocellular Adenoma  
Hyperplasia, Nos  
Cystic Ducts  
Inflammation, Acute/Chronic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Lung  
Stomach

Lymphocytic Inflammatory Infiltrate  
Bronchopneumonia, Acute  
Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|        |                                     |
|--------|-------------------------------------|
| Kidney | Lymphocytic Inflammatory Infiltrate |
| Liver  | Hepatocellular Adenoma              |
| Skin   | Hyperplasia, Nos                    |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_028

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_031

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Liver  
Lung

Mesentery Nos

Necrosis, Fat  
Hepatocellular Adenoma  
Bronchopneumonia, Acute

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_032

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Harderian gland  
Lung

Hardarian Gland

Cortical Adenoma  
Adenoma, Nos  
Bronchopneumonia, Acute

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Abdominal Cavity

Inflammation, Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_034

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Skin

Pheochromocytoma  
Necrosis, Nos  
Fibrosis, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

|         |      |                                     |
|---------|------|-------------------------------------|
| Kidney  |      | Lymphocytic Inflammatory Infiltrate |
| Liver   |      | Angiectasis                         |
|         |      | Hepatocellular Adenoma              |
| Skin    | Tail | Inflammation, Acute/Chronic         |
| Stomach |      | Hyperplasia, Epithelial             |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hepatocellular Carcinoma

Lung

Hyperplasia, Alveolar Epithelium

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung  
Thyroid

Alveolar/Bronchiolar Adenoma  
Hyperplasia, Follicular Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_039

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Ear  
Intestine Small  
Liver

Mesentery Nos

Sarcoma, Nos  
Necrosis, Fat  
Focal Cellular Change  
Hepatocellular Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Unspecified

Lymphocytic Inflammatory Infiltrate  
Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_041

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Thyroid  
Unspecified

Multiple Organs Nos

Cystic Follicles  
Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Thyroid

Pheochromocytoma

Lymphocytic Inflammatory Infiltrate

Hepatocellular Carcinoma

Hyperplasia, Follicular Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_044

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                |
|-------------|---------------------|--------------------------------|
| Liver       |                     | Necrosis, Nos                  |
| Spleen      |                     | Necrosis, Nos                  |
| Unspecified | Multiple Organs Nos | Lymphoma, Mixed-Malignant Type |

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Small  
Kidney  
Lung  
Pancreas

Mesentery Nos

Necrosis, Fat  
Infarct, Nos  
Alveolar/Bronchiolar Carcinoma

Islets

Atrophy, Nos  
Hyperplasia, Nos  
Necrosis, Nos  
Cystic Follicles

Testis  
Thyroid

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Esophagus

Foreign Body, Nos

Unspecified

Multiple Organs Nos

Granuloma, Foreign Body

Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hepatocellular Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Lymphocytic-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 062.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Lung  
Unspecified

Alveolar/Bronchiolar Carcinoma  
Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_050

**TRT#:** 1  
**DOSE:** 062.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung  
Unspecified

Mediastinum Nos

Pneumonia, Lipid  
Inflammation, Acute/Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Preputial gland

Pheochromocytoma  
Hepatocellular Adenoma  
Cystic Ducts  
Inflammation, Chronic  
Inflammation, Chronic  
Cyst, Nos

Skin  
Thymus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_004

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |                              |
|---------|------------------------------|
| Lung    | Alveolar/Bronchiolar Adenoma |
| Skin    | Inflammation, Chronic        |
| Stomach | Cyst, Nos                    |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_005

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Skin

Pheochromocytoma  
Basal-Cell Tumor  
Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Lung

Pheochromocytoma, Malignant  
Bronchopneumonia, Acute  
Cholesterol Deposit

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |        |   |
|---------|--------|---|
| Liver   |        | Hepatocellular Carcinoma<br>Necrosis, Focal                 |
| Lung    |        | Bronchopneumonia, Acute<br>Hyperplasia, Alveolar Epithelium |
| Stomach | Mucosa | Hyperplasia, Adenomatous                                    |
| Thyroid |        | Hyperplasia, Follicular Cell                                |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|       |                              |
|-------|------------------------------|
| Liver | Hepatocellular Adenoma       |
| Lung  | Alveolar/Bronchiolar Adenoma |
|       | Bronchopneumonia, Acute      |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                |
|-------------|---------------------|--------------------------------|
| Lung        |                     | Bronchopneumonia, Acute        |
| Thyroid     |                     | Hyperplasia, Follicular Cell   |
| Unspecified | Multiple Organs Nos | Lymphoma, Mixed-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |                              |
|---------|------------------------------|
| Kidney  | Nephropathy                  |
| Liver   | Hepatocellular Carcinoma     |
| Thymus  | Cyst, Nos                    |
| Thyroid | Hyperplasia, Follicular Cell |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Intestine Large

Hardarian Gland  
Colon

Adenoma, Nos  
Adenocarcinoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Lung  
Unspecified

Hardarian Gland  
Mediastinum Nos  
Mediastinum Nos

Adenoma, Nos  
Alveolar/Bronchiolar Adenoma  
Foreign Body, Nos  
Inflammation, Acute Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |                                     |
|---------|-------------------------------------|
| Kidney  | Lymphocytic Inflammatory Infiltrate |
|         | Nephropathy                         |
| Liver   | Hepatocellular Adenoma              |
| Thyroid | Hyperplasia, Follicular Cell        |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver Hepatocellular Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Esophagus  
Lung

Muscularis

Inflammation, Suppurative  
Hyperplasia, Adenomatous

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                 |                 |                                     |
|-----------------|-----------------|-------------------------------------|
| Kidney          | Pelvis          | Lymphocytic Inflammatory Infiltrate |
| Liver           |                 | Hepatocellular Adenoma              |
| Lung            |                 | Pneumonia, Aspiration               |
| Preputial gland |                 | Cyst, Nos                           |
| Unspecified     | Mediastinum Nos | Foreign Body, Nos                   |
|                 | Mediastinum Nos | Inflammation, Acute Suppurative     |

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                           |
|-------------|---------------------|---------------------------|
| Lung        |                     | Foreign Body, Nos         |
|             |                     | Pneumonia, Aspiration     |
| Unspecified | Mediastinum Nos     | Granuloma, Foreign Body   |
|             | Multiple Organs Nos | Inflammation, Suppurative |

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Epididymis  
Intestine Small

Mesentery Nos

Cyst, Nos  
Necrosis, Fat

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney  
Lung

Nephropathy  
Alveolar/Bronchiolar Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|            |                  |                        |
|------------|------------------|------------------------|
| Liver      |                  | Hepatocellular Adenoma |
| Lymph node | Renal Lymph Node | Hyperplasia, Lymphoid  |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Stomach

Cyst, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 031.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lymph node  
Preputial gland

Mesenteric Lymph Node

Necrosis, Nos  
Cystic Ducts  
Inflammation, Chronic

Spleen  
Stomach

Necrosis, Nos  
Hyperplasia, Epithelial

Unspecified

Mucosa  
Multiple Organs Nos

Squamous Cell Papilloma  
Hemangiosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Thyroid  
Unspecified

Multiple Organs Nos

Hyperplasia, Follicular Cell  
Lymphoma, Histiocytic-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Liver  
Lung

Jejunum

Ulcer, Nos  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_031

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Lung  
Testis  
Thyroid  
Unspecified

Mesentery Nos

Multiple Organs Nos

Necrosis, Fat  
Alveolar/Bronchiolar Adenoma  
Interstitial-Cell Tumor  
Degeneration, Cystic  
Neurilemoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 031.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung

Bronchopneumonia, Acute

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver  
Preputial gland

Hepatocellular Carcinoma  
Cystic Ducts  
Inflammation, Acute Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung  
Unspecified

Multiple Organs Nos

Bronchopneumonia, Focal  
Lymphoma, Histiocytic-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Spleen  
Unspecified

Hematopoiesis  
Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Eye

Cataract

Harderian gland

Harderian Gland

Phthisis Bulbi

Intestine Small

Mesentery Nos

Adenoma, Nos

Skin

Necrosis, Fat

Inflammation, Acute/Chronic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_038

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung  
Bronchopneumonia, Acute

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_039

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Skin  
Thymus

Inflammation, Acute/Chronic  
Cyst, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|       |                             |
|-------|-----------------------------|
| Liver | Cytologic Alteration, Nos   |
| Skin  | Inflammation, Acute/Chronic |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Lung  
Unspecified

Mesentery Nos  
Mediastinum Nos  
Mediastinum Nos

Necrosis, Fat  
Pneumonia, Lipid  
Foreign Body, Nos  
Inflammation, Acute Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver  
Preputial gland

Hepatocellular Carcinoma  
Cystic Ducts

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                      |
|-------------|---------------------|--------------------------------------|
| Lung        |                     | Bronchopneumonia, Acute              |
| Unspecified | Multiple Organs Nos | Lymphoma, Lymphocytic-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_044

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|        |                                      |
|--------|--------------------------------------|
| Kidney | Lymphocytic Inflammatory Infiltrate  |
| Liver  | Hepatocellular Carcinoma             |
| Lung   | Hepatocellular Carcinoma, Metastatic |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Intestine Small  
Liver  
Spleen  
Thyroid

Hardarian Gland  
Jejunum

Adenoma, Nos  
Adenocarcinoma, Nos  
Hepatocellular Adenoma  
Hematopoiesis  
Hyperplasia, Follicular Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |                              |
|---------|------------------------------|
| Lung    | Alveolar/Bronchiolar Adenoma |
| Skin    | Fibrosis, Focal              |
| Thyroid | Hyperplasia, Follicular Cell |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Preputial gland

Cystic Ducts  
Inflammation, Acute Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Liver  
Lung  
Skin

Mesentery Nos

Mesothelioma, Malignant  
Cytologic Alteration, Nos  
Mesothelioma, Metastatic  
Ulcer, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_049

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|      |                         |
|------|-------------------------|
| Lung | Bronchopneumonia, Acute |
| Skin | Fibroma                 |
|      | Fibrosis, Focal         |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_050

**TRT#:** 2  
**DOSE:** 031.0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                      |
|-------------|---------------------|--------------------------------------|
| Liver       |                     | Hepatocellular Adenoma               |
| Unspecified | Multiple Organs Nos | Lymphoma, Lymphocytic-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_001

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Kidney  
Liver

Mesentery Nos

Thyroid

Pheochromocytoma  
Angiectasis  
Lymphocytic Inflammatory Infiltrate  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Cystic Follicles  
Follicular-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Kidney  
Lung  
Thyroid

Hardarian Gland

Adenoma, Nos  
Lymphocytic Inflammatory Infiltrate  
Alveolar/Bronchiolar Adenoma  
Cystic Follicles  
Hyperplasia, Follicular Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_003

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney  
Thyroid

Lymphocytic Inflammatory Infiltrate  
Follicular-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_004

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|       |                           |
|-------|---------------------------|
| Liver | Cytologic Alteration, Nos |
| Lung  | Pneumonia, Lipid          |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_005

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Skin

Fibroma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_007

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                 |                           |
|-------------|-----------------|---------------------------|
| Lung        |                 | Granuloma, Foreign Body   |
|             |                 | Inflammation, Suppurative |
| Unspecified | Mediastinum Nos | Granuloma, Foreign Body   |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_008

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Liver  
Skin  
Spleen  
Unspecified

Hardarian Gland

Adenoma, Nos  
Hepatocellular Adenoma  
Inflammation, Chronic Focal  
Hematopoiesis  
Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_009

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Skin

Unspecified

Multiple Organs Nos

Inflammation, Chronic Focal

Neurilemoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Liver

Medulla

Hyperplasia, Focal  
Hepatocellular Carcinoma  
Necrosis, Nos  
Alveolar/Bronchiolar Adenoma  
Angiectasis  
Hyperplasia, Follicular Cell

Lung  
Lymph node  
Thyroid

Mesenteric Lymph Node

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_011

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver  
Lung

Hepatocellular Carcinoma  
Alveolar/Bronchiolar Carcinoma  
Hepatocellular Carcinoma, Metastatic  
Alveolar/Bronchiolar Carcinoma, Invasive

Unspecified

Mediastinum Nos

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_012

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                      |
|-------------|----------------------|
| Heart       | Degeneration, Nos    |
| Spleen      | Hematopoiesis        |
| Thyroid     | Degeneration, Cystic |
| Unspecified | Fibrosarcoma         |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_013

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|        |                                     |
|--------|-------------------------------------|
| Heart  | Inflammation, Chronic Focal         |
| Kidney | Lymphocytic Inflammatory Infiltrate |
| Liver  | Hepatocellular Carcinoma            |
|        | Necrosis, Nos                       |
| Skin   | Inflammation, Acute Focal           |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_015

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Lung

Cortex Nos

Cyst, Nos  
Alveolar/Bronchiolar Adenoma  
Foreign Body, Nos  
Inflammation, Chronic Focal  
Inflammation, Acute/Chronic  
Degeneration, Cystic

Skin  
Thyroid

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_016

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney  
Stomach

Lymphocytic Inflammatory Infiltrate  
Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_017

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney  
Lung  
Preputial gland  
Thyroid  
  
Unspecified

Scar  
Alveolar/Bronchiolar Adenoma  
Inflammation, Chronic  
Cystic Follicles  
Hyperplasia, Follicular Cell  
Inflammation, Acute/Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_018

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                |        |                                      |
|----------------|--------|--------------------------------------|
| Kidney         | Pelvis | Lymphocytic Inflammatory Infiltrate  |
| Liver          |        | Hepatocellular Carcinoma             |
| Lung           |        | Alveolar/Bronchiolar Adenoma         |
|                |        | Hepatocellular Carcinoma, Metastatic |
| Salivary gland |        | Lymphocytic Inflammatory Infiltrate  |
| Skin           |        | Inflammation, Chronic Focal          |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_019

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Intestine Small

Mesentery Nos

Inflammation, Acute Suppurative

Kidney

Mesentery Nos

Necrosis, Fat

Pancreas

Lymphocytic Inflammatory Infiltrate

Necrosis, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_020

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                 |                         |
|-----------------|-------------------------|
| Lung            | Bronchopneumonia, Focal |
| Preputial gland | Histiocytosis           |
|                 | Cystic Ducts            |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_021

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|            |                       |   |
|------------|-----------------------|---|
| Liver      |                       | Focal Cellular Change<br>Hepatocellular Carcinoma |
| Lung       |                       | Alveolar/Bronchiolar Adenoma                      |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid                             |
| Spleen     |                       | Hematopoiesis                                     |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_022

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                      |
|-------------|---------------------|--------------------------------------|
| Liver       |                     | Hepatocellular Carcinoma             |
| Lung        |                     | Hepatocellular Carcinoma, Metastatic |
| Unspecified | Multiple Organs Nos | Pneumonia, Lipid                     |
|             |                     | Perivasculitis                       |

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_023

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver  
Hepatocellular Adenoma  
Hepatocellular Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_024

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Lung  
Preputial gland  
  
Skin

Pheochromocytoma  
Lymphocytic Inflammatory Infiltrate  
Hepatocellular Adenoma  
Alveolar/Bronchiolar Adenoma  
Cystic Ducts  
Inflammation, Acute/Chronic  
Fibroma  
Fibrosis  
Inflammation, Acute/Chronic  
Metaplasia, Osseous  
Ulcer, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_025

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Liver  
Lung

Hardarian Gland

Adenoma, Nos  
Hepatocellular Carcinoma  
Alveolar/Bronchiolar Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_026

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                                |
|-------------|--------------------------------|
| Liver       | Hepatocellular Carcinoma       |
| Lung        | Alveolar/Bronchiolar Carcinoma |
| Unspecified | Pneumonia, Lipid               |
|             | Fibrosarcoma                   |

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_027

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                |
|-------------|---------------------|--------------------------------|
| Liver       |                     | Cyst, Nos                      |
| Unspecified | Multiple Organs Nos | Lymphoma, Mixed-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_028

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Preputial gland  
Stomach

Hardarian Gland

Adenoma, Nos  
Cystic Ducts  
Cyst, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_029

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                     |                                      |
|-------------|---------------------|--------------------------------------|
| Liver       |                     | Leukocytosis, Nos                    |
| Unspecified | Multiple Organs Nos | Lymphoma, Lymphocytic-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_031

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |   |
|---------|---|
| Liver   | Hepatocellular Carcinoma<br>Necrosis, Nos |
| Lung    | Bronchopneumonia, Acute                   |
| Skin    | Inflammation, Chronic Focal               |
| Thyroid | Follicular-Cell Adenoma                   |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_032

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|                 |                     |  |
|-----------------|---------------------|--|
| Liver           |                     | Hepatocellular Carcinoma                                       |
| Lung            |                     | Alveolar/Bronchiolar Carcinoma                                 |
| Preputial gland |                     | Cystic Ducts   |
| Skin            |                     | Basal-Cell Tumor   |
| Thyroid         |                     | Cystic Follicles   |
| Unspecified     | Multiple Organs Nos | Hyperplasia, Follicular Cell<br>Lymphoma, Mixed-Malignant Type |

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_033

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|         |                          |
|---------|--------------------------|
| Liver   | Hepatocellular Carcinoma |
| Spleen  | Hemangiosarcoma          |
| Thyroid | Follicular-Cell Adenoma  |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_034

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Skin  
Thyroid  
Unspecified

Multiple Organs Nos

Pheochromocytoma, Malignant  
Hepatocellular Adenoma  
Fibroma  
Degeneration, Cystic  
Pheochromocytoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_035

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Stomach

Mucosa

Hyperplasia, Epithelial  
Inflammation, Acute/Chronic  
Cystic Follicles

Thyroid

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_036

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Salivary gland

Fibrosis

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_037

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung  
Bronchopneumonia, Focal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_038

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver Hepatocellular Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_039

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|       |                             |
|-------|-----------------------------|
| Liver | Hepatocellular Carcinoma    |
| Skin  | Inflammation, Chronic Focal |

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_040

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver Hepatocellular Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_041

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung

Foreign Body, Nos  
Pneumonia, Aspiration

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_042

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver  
Lung

Hepatocellular Adenoma  
Alveolar/Bronchiolar Adenoma  
Bronchopneumonia, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_044

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                 |                                     |
|-------------|-----------------|-------------------------------------|
| Kidney      | Pelvis          | Lymphocytic Inflammatory Infiltrate |
| Thymus      |                 | Inflammation, Acute Suppurative     |
| Unspecified | Mediastinum Nos | Inflammation, Acute Suppurative     |

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_045

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_046

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Pheochromocytoma  
Nephropathy  
Hepatocellular Carcinoma  
Necrosis, Nos  
Bronchopneumonia, Focal  
Hyperplasia, Follicular Cell

Lung  
Thyroid

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_047

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortical Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_048

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

|             |                 |                                 |
|-------------|-----------------|---------------------------------|
| Liver       |                 | Hepatocellular Adenoma          |
| Lung        |                 | Congestion, Nos                 |
|             | Pleura Nos      | Inflammation, Acute Suppurative |
| Unspecified | Mediastinum Nos | Inflammation, Acute Suppurative |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_049

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Skin Basal-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54717  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Allyl isovalerate  
**CAS Number:** 2835-39-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:12:34  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_050

**TRT#:** 3  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Lung  
Thyroid  
Unspecified

Multiple Organs Nos

Pheochromocytoma  
Hepatocellular Carcinoma  
Alveolar/Bronchiolar Adenoma  
Follicular-Cell Adenoma  
Lymphoma, Mixed-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

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