

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C60946
<b>Lock Date:</b>	05/28/2002
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 60946-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/18/2014

Time Report Requested: 14:07:48

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107741
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- |                 |            |
|-----------------|------------|
| * Mammary Gland | * Prostate |
|-----------------|------------|

OBSERVATIONS

- |                      |              |                                  |                      |
|----------------------|--------------|----------------------------------|----------------------|
| * Kidney             |              | Nephropathy                      | Minimal              |
|                      | Renal Tubule | Vacuolization Cytoplasmic        | Minimal              |
| * Spleen             |              | Hematopoietic Cell Proliferation | Minimal              |
| * Stomach, Glandular |              | Infiltration Cellular            | Polymorphnuclr, Mild |

Note: Single dilated (ectatic) glands at the plica marginalis, as in this mouse, were not diagnosed in this study.

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02

**Test Type:** 90-DAY

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole

**CAS Number:** 140-67-0

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

**Time Report Requested:** 14:07:48

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

**Lab:** BAT

**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Infiltration Cellular	Polymorphnuclr, Minimal
* Trachea		Inflammation	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/18/2014

Time Report Requested: 14:07:48

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107743
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Blood Vessel            | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                  |              |                                  |         |
|------------------|--------------|----------------------------------|---------|
| * Adrenal Cortex | Subcapsular  | Hyperplasia                      | Minimal |
| * Kidney         | Renal Tubule | Vacuolization Cytoplasmic        | Minimal |
| * Liver          |              | Hematopoietic Cell Proliferation | Minimal |
| * Spleen         |              | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/18/2014

Time Report Requested: 14:07:48

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                        |              |                                  |                         |
|------------------------|--------------|----------------------------------|-------------------------|
| * Gallbladder          |              | Infiltration Cellular            | Mixed Cell, Minimal     |
| * Kidney               | Renal Tubule | Vacuolization Cytoplasmic        | Mild                    |
| * Liver                |              | Inflammation                     | Chronic Active, Minimal |
| * Spleen               |              | Hematopoietic Cell Proliferation | Minimal                 |
| * Stomach, Forestomach |              | Mineralization                   | Minimal                 |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107745
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Inflammation	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107746
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Ectasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Infiltration Cellular	Polymorphnuclr, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107747
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: Optic nerves were missing at trim.			
* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107748
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107749
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107750

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: Optic nerves were missing at trim.			
* Kidney	Papilla	Mineralization	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107751

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach			

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal
Stomach, Glandular	Dilatation	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107752

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 13	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107753

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107754

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

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**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107755

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107756

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Liver		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107757

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107758

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Liver		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107759

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

<b>NORMAL</b>			
Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

<b>OBSERVATIONS</b>			
* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107760

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 21	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107761

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Kidney	Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

Spleen	Hematopoietic Cell Proliferation	Minimal
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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 22	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107762

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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Lymph Node, Mandibular	Lymph Node, Mesenteric	Stomach, Forestomach	Stomach, Glandular
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 23	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107763

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

* Kidney	Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

---

Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 24	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107764

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Kidney	Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 25	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107765

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

<b>NORMAL</b>			
Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

<b>OBSERVATIONS</b>			
* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Liver		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 26	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107766

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

---

Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107767

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

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* Kidney	Papilla	Mineralization	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 28	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107768

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 29	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107769

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 30

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107770

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney  
Stomach, Forestomach

Lymph Node, Mandibular  
Stomach, Glandular

Lymph Node, Mesenteric

\* Nose

---

**OBSERVATIONS**

Liver  
Spleen

Inflammation  
Hematopoietic Cell Proliferation

Chronic Active, Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107771

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107772

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	* Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

Spleen	Hematopoietic Cell Proliferation	Minimal
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---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107773

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	* Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

Spleen	Hematopoietic Cell Proliferation	Minimal
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---

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107774

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney Stomach, Forestomach	* Liver Stomach, Glandular	Lymph Node, Mandibular	Lymph Node, Mesenteric
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**OBSERVATIONS**

* Nose Note: The olfactory epithelial degeneration in this animal is limited to reduced density of nuclei in the mid-dorsal meatus.	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107775

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 36	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107776

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107777

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Nose		

Note: There is a focal developmental anomaly involving a fold of olfactory epithelium in a ventral turbinate scroll in this animal.

Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107778

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Vacuolization Cytoplasmic	Minimal
* Liver		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107779

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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* Kidney	* Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
* Nose	Stomach, Forestomach	Stomach, Glandular	

---

**OBSERVATIONS**

\* Kidney  
Note: There is an epithelium-lined cyst in the peri-renal fat in this animal (incidental finding).

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Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107780

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Kidney Stomach, Forestomach	* Liver Stomach, Glandular	Lymph Node, Mandibular	Lymph Node, Mesenteric
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**OBSERVATIONS**

* Nose Spleen	Olfactory Epi	Degeneration Hematopoietic Cell Proliferation	Minimal Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107781

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands	Stomach, Forestomach
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Mineralization	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107782

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107783

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107784

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 9 <b>DOSE:</b> 300 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 0107785
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Kidney Stomach, Forestomach	Lymph Node, Mandibular * Stomach, Glandular	Lymph Node, Mesenteric	Salivary Glands
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**OBSERVATIONS**

* Liver	Oval Cell Hepatocyte	Hyperplasia Hypertrophy Inflammation	Minimal Minimal Chronic Active, Minimal
* Nose Spleen	Olfactory Epi	Degeneration Hematopoietic Cell Proliferation	Mild Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107786

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107787

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney	Papilla	Mineralization	Minimal
* Liver	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107788

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107789

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 300 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107790

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Salivary Glands
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107791

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

---

**MISSING**

\* Mammary Gland

---

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Marked
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Minimal
[ Hyperplasia TGLS = 1-3,4,5,10 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107792

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

---

**MISSING**

\* Mammary Gland

---

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Parathyroid Gland		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 53	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107793

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

---

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Minimal

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[ Hyperplasia TGLS = 1-10 ]  
[ Inflammation TGLS = 1-10 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 54

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 600 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107794

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Minimal
[ Hyperplasia TGLS = 1-4,5 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107795

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
[ Hyperplasia TGLS = 1-4,5 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 56	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107796

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Brain	Venule	Infiltration Cellular	Mixed Cell, Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 57

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 600 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107797

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: Optic nerve was not present in block or wet tissue at trim.			
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 58

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 61

**DOSE:** 600 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0107798

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Atrophy	Mild
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
* Lung		Congestion	Diffuse, Mild
Note: Lungs are red due to congestion, which is not diagnosed microscopically except where diagnosed grossly.			
[ Congestion TGLS = 1-3 ]			
* Lymph Node, Mandibular		Atrophy	Marked
* Lymph Node, Mesenteric		Atrophy	Marked
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Cytoplasmic Alteration	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
	Epithelium, Glands	Degeneration	Mild
	Glands	Ectasia	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 58	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 61
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0107798

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH	- Liver Hepatocyte Degeneration
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 59

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 600 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107799

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Minimal
[ Hyperplasia TGLS = 1-4,5 ]			
[ Hypertrophy TGLS = 2-4,5 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107800

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 61

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107801

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107802

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107803

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/18/2014

Time Report Requested: 14:07:48

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Uterus

- \* Blood Vessel
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Liver
- \* Spleen

Subcapsular

Hyperplasia  
 Inflammation  
 Hematopoietic Cell Proliferation

Mild  
 Chronic Active, Minimal  
 Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107805

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland was missing at trim.			
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107806

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 67

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107807

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
		Pigmentation	Hemosiderin, Minimal
* Parathyroid Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 68

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107808

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 69

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107809

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 70	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107810

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

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

---

**MISSING**

\* Pituitary Gland

---

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 71	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107811

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 72	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107812

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 73	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107813

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107814

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

---

* Liver	Oval Cell	Hyperplasia	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 75	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107815

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

---

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 76	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107816

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

---

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107817

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

<b>NORMAL</b>			
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Mild
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 78	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107818

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

---

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

---

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107819

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 80	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107820

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mesenteric	Nose	Stomach, Forestomach
Stomach, Glandular			

---

**MISSING**

Lymph Node, Mandibular

---

**OBSERVATIONS**

* Liver	Inflammation	Chronic Active, Minimal
Spleen	Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107821

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107822

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 83	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107823

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 84	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107824

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107825

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107826

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Kidney	Lymph Node, Mesenteric	* Nose	Stomach, Forestomach
Stomach, Glandular			

---

**MISSING**

Lymph Node, Mandibular

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 87	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107827

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107828

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107829

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107830

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 91	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107831

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 92	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107832

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107833

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 94	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107834

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach			

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Mineralization	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 95	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107835

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107836

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

Clitoral Gland		Pigmentation	Melanin, Mild
[ Pigmentation TGLS = 1-8 ]			
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 97	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107837

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	Stomach, Forestomach
* Stomach, Glandular			

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107838

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
* Stomach, Glandular			

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
		Mixed Cell Focus	
Spleen		Hematopoietic Cell Proliferation	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107839

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 100	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107840

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Lymph Node, Mandibular	Lymph Node, Mesenteric	* Nose
Stomach, Forestomach	* Stomach, Glandular		

---

**OBSERVATIONS**

* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE







**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107843

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: There was no corresponding lesion to correlate with the opacity observed at necropsy.			
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE













**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 110

**TRT#:** 10  
**DOSE:** 300 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93  
**HISTO:** 0107850

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye			
Note: Optic nerves were missing at trim.			
* Liver	Hepatocyte	Degeneration	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 60946-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/18/2014

Time Report Requested: 14:07:48

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 111

TRT#: 12

DOSE: 600 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 4

HISTO: 0107851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral GI			
Note: One clitoral gland was missing at trim.			
* Liver	Oval Cell	Hyperplasia	Minimal
		Necrosis	Moderate
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Marked
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Depletion Cellular	Mild
* Stomach, Glandular	Epithelium, Glands	Degeneration	Minimal
* Thymus		Necrosis	Lymphoid, Marked

PRIMARY CAUSE OF DEATH

- Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 112

**TRT#:** 12  
**DOSE:** 600 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 4  
**HISTO:** 0107852

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

**OBSERVATIONS**

* Eye			
Note: Optic nerves not present in block.			
* Liver		Necrosis	Marked
* Lymph Node, Mesenteric		Atrophy	Marked
Mesentery	Fat	Inflammation	Moderate
Note: The inflamed fat is in the pancreatic hilus and is associated with saponification in this and other cases.			
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Moderate
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Mineralization	Moderate
		Ulcer	Moderate
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 12  
**DOSE:** 600 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 4  
**HISTO:** 0107853

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Fatty Change	Diffuse, Minimal
	Oval Cell	Hyperplasia	Minimal
		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Marked
Mesentery	Fat	Necrosis	Minimal
Note: There is minimal saponification of peri-pancreatic fat.			
* Nose	Olfactory Epi	Degeneration	Marked
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Depletion Cellular	Mild
* Stomach, Forestomach		Mineralization	Minimal
		Ulcer	Minimal
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 4

**DOSE:** 600 MG/KG

**DISP:** Natural Death

**HISTO:** 0107854

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Liver	Oval Cell	Hyperplasia	Mild
		Necrosis	Moderate
Lymph Node	Renal	Atrophy	Marked
	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Marked
* Nose	Olfactory Epi	Degeneration	Marked
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Depletion Cellular	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
	Epithelium	Necrosis	Mild
		Ulcer	Minimal
* Stomach, Glandular	Epithelium, Glands	Degeneration	Minimal
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 115

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 4

**DOSE:** 600 MG/KG

**DISP:** Natural Death

**HISTO:** 0107855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Necrosis	Marked
Lymph Node	Pancreatic	Atrophy	Moderate
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Marked
* Nose	Olfactory Epi	Degeneration	Marked
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Ulcer	Mild
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 12  
**DOSE:** 600 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 4  
**HISTO:** 0107856

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Necrosis	Marked
Lymph Node	Mediastinal	Atrophy	Mild
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Atrophy	Marked
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Depletion Cellular	Moderate
* Stomach, Glandular	Epithelium, Glands	Degeneration	Mild
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 12  
**DOSE:** 600 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 4  
**HISTO:** 0107857

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Eye			
Note: Optic nerves missing at trim.			
* Gallbladder		Inflammation	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Necrosis	Marked
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Depletion Cellular	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Mineralization	Minimal
		Ulcer	Mild
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 118	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 4
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107858

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: No optic nerves were present at trim.			
* Liver		Necrosis	Marked
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Depletion Cellular	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Mineralization	Minimal
* Thymus		Necrosis	Lymphoid, Marked

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**PRIMARY CAUSE OF DEATH** - Liver Necrosis

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 119

**TRT#:** 12  
**DOSE:** 600 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 5  
**HISTO:** 0107859

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney			
Note: There is one focus of immature mesenchyme and glomeruli in the right kidney section of this animal.			
* Liver	Oval Cell	Fatty Change Hyperplasia Inflammation Necrosis	Diffuse, Moderate Mild Chronic Active, Mild Mild
[ Fatty Change TGLS = 1-4+5 ] [ Necrosis TGLS = 1-4+5 ]			
* Lung		Congestion	Mild
Note: Congestion was only diagnosed where it is a correlate to a gross observation, as in this animal. [ Congestion TGLS = 2-3 ]			
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy Infiltration Cellular	Marked Polymorphnuclr, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Moderate
* Spleen	Lymph Follic Red Pulp	Atrophy Depletion Cellular	Moderate Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 119	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 5
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0107859

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Mineralization	Moderate
		Ulcer	Moderate
[ Ulcer TGLS = 4-10 ]			
* Stomach, Glandular	Epithelium, Glands	Degeneration	Mild
* Thymus		Necrosis	Lymphoid, Marked
* Trachea			

Note: No section was taken of the perforation.

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PRIMARY CAUSE OF DEATH	- Stomach, Forestomach	Ulcer
CONTRIBUTORY CAUSE OF DEATH	- Liver	Necrosis

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 60946-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Estragole  
**CAS Number:** 140-67-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 14:07:48  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 3

**DOSE:** 600 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0107860

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Intestine Large, Colon		Inflammation	Mild
* Liver		Fatty Change	Diffuse, Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
		Necrosis	Mild
[ Necrosis TGLS = 1-4+5 ]			
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Cytoplasmic Alteration	Moderate
* Spleen	Lymph Follic	Atrophy	Minimal
* Stomach, Forestomach		Mineralization	Mild
* Stomach, Glandular	Epithelium, Glands	Degeneration	Mild
* Thymus		Necrosis	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

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

\* PROTOCOL REQUIRED TISSUE