

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

C Number:	C60946
Lock Date:	09/03/2002
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107501

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	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107503
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal

[Vacuolization Cytoplasmic TGLS = 1-6+7]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107504
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107505
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107506
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107507
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107508

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 | * Liver | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|-----------------------|-----------------------|---------------------|
| * Kidney | | Infiltration Cellular | Lymphocyte, Minimal |
| | Papilla, Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------|----------------|-----------------------|-------------------------|
| * Epididymis | | Hypospermia | Marked |
| * Heart | Myocardium | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney | Renal Tubule | Regeneration | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Testes | Germinal Epith | Degeneration | Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107510
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adren Cortex Note: One adrenal gland missing.			
* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Papilla, Renal Tubule Renal Tubule	Mineralization	Minimal
* Liver [Hepatodiaphragmatic Nodule TGLS = 1-13]		Regeneration Hepatodiaphragmatic Nodule	Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 12	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Nose
* Pituitary Gland	Salivary Glands	Stomach, Glandular	Testes

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Kidney	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 3 DOSE: 37.5 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107517
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Kidney	* Lung
Lymph Node, Mesenteric	Nose	* Pituitary Gland	Salivary Glands
Stomach, Glandular	Testes		

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Kidney	Lymph Node, Mesenteric
Nose	* Pituitary Gland	Salivary Glands	Stomach, Glandular
Testes			

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	Lymph Node, Mesenteric	Nose
* Pituitary Gland	Salivary Glands	Stomach, Glandular	Testes

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-13]		
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	Lymph Node, Mesenteric	Nose
* Pituitary Gland	Salivary Glands	Stomach, Glandular	Testes

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-13]		
* Lung		Hamartoma	
		Inflammation	Granulomatous, Minimal

Note: Left lung has small focus of ectopic striated muscle .

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	* Stomach, Glandular	Testes

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	* Lung	Lymph Node, Mesenteric	Nose
* Pituitary Gland	* Stomach, Glandular	Testes	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	Lymph Node, Mesenteric	Nose
* Pituitary Gland	* Stomach, Glandular	Testes	

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
	[Hypertrophy TGLS = 1-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	* Lung	Lymph Node, Mesenteric
Nose	* Pituitary Gland	* Stomach, Glandular	Testes

OBSERVATIONS

* Kidney	Renal Tubule	Cyst	Minimal
	Medulla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
[Hypertrophy TGLS = 1-6+7]			
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Lymph Node, Mesenteric	Nose	* Pituitary Gland
* Stomach, Glandular	Testes		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	* Lung	Lymph Node, Mesenteric	Nose
* Pituitary Gland	* Stomach, Glandular	Testes	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Minimal
[Hypertrophy TGLS = 1-6+7]			
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 27

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone Marrow
- * Pituitary Gland

- Epididymis
- * Stomach, Glandular

- Lymph Node, Mesenteric
- Testes

Nose

OBSERVATIONS

- * Kidney
- * Liver

- Renal Tubule
- Bile Duct
- Oval Cell
- Hepatocyte
- Periportal
- Periportal

- Regeneration
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Infiltration Cellular
- Inflammation
- Mixed Cell Focus

- Minimal
- Minimal
- Minimal
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal

[Hypertrophy TGLS = 1-6+7]

- * Lung
- * Salivary Glands

Submandibul GI

- Inflammation
- Cytoplasmic Alteration

- Chronic, Minimal
- Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Lymph Node, Mesenteric	Nose	* Pituitary Gland
* Stomach, Glandular	Testes		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
[Hypertrophy TGLS = 1-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29	TRT#: 5	SEX: Male	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	Lymph Node, Mesenteric	Nose
* Pituitary Gland	Testes		

OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
[Hypertrophy TGLS = 1-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Epididymis	Lymph Node, Mesenteric	Nose
* Pituitary Gland	Testes		

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	Lymph Node, Mesenteric	Mesentery
* Nose	* Pituitary Gland	* Testes	

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
	[Basophilic Focus TGLS = 2-13]		
	[Clear Cell Focus TGLS = 2-13]		
	[Hepatodiaphragmatic Nodule TGLS = 2-13]		
	[Hypertrophy TGLS = 1-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	* Lung	Lymph Node, Mesenteric
* Nose	Oral Mucosa	* Pituitary Gland	

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
* Testes	Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 1-13]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	* Pituitary Gland
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OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
* Testes	Germinal Epith	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow
* Pituitary Gland

* Epididymis
* Testes

Lymph Node, Mesenteric

* Nose

OBSERVATIONS

* Kidney

* Liver

[Hypertrophy TGLS = 1-6+7]

* Lung
* Salivary Glands
* Stomach, Glandular

Papilla, Renal Tubule
Cortex, Renal Tubule
Renal Tubule

Bile Duct
Oval Cell
Hepatocyte
Periportal
Periportal

Mineralization
Pigmentation
Regeneration
Clear Cell Focus
Hyperplasia
Hyperplasia
Hypertrophy
Infiltration Cellular
Inflammation
Mixed Cell Focus

Minimal
Minimal
Minimal

Minimal
Mild
Mild
Histiocyte, Mild
Chronic, Mild

Inflammation
Cytoplasmic Alteration
Atrophy

Chronic, Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	Lymph Node, Mesenteric	* Nose	* Pituitary Gland
* Testes			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6+7]			
[Hypertrophy TGLS = 1-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	* Lung	Lymph Node, Mesenteric
* Nose	* Pituitary Gland	* Testes	

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1-6+7]			
[Mixed Cell Focus TGLS = 1-6+7]			
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis

* Lung

Lymph Node, Mesenteric

* Nose

* Pituitary Gland

OBSERVATIONS

* Bone Marrow

Hyperplasia

Minimal

* Kidney

Cortex, Renal Tubule

Pigmentation

Minimal

Renal Tubule

Regeneration

Minimal

* Liver

Basophilic Focus

Eosinophilic Focus

Bile Duct

Hyperplasia

Minimal

Oval Cell

Hyperplasia

Mild

Hepatocyte

Hypertrophy

Mild

Periportal

Infiltration Cellular

Histiocyte, Mild

Periportal

Inflammation

Chronic, Mild

Mixed Cell Focus

* Salivary Glands

Submandibul GI

Cytoplasmic Alteration

Minimal

* Stomach, Glandular

Epithelium, Glands

Atrophy

Minimal

* Testes

Germinal Epith

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	Lymph Node, Mesenteric	* Pituitary Gland	* Testes
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	Lymph Node, Mesenteric	* Nose
* Pituitary Gland	* Testes		

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40	TRT#: 7	SEX: Male	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	Lymph Node, Mesenteric	* Nose
* Pituitary Gland	* Testes		

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]		
	[Hypertrophy TGLS = 2-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 1-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42	TRT#: 9 DOSE: 300 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107542
OBSERVATIONS			
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
	[Pigmentation TGLS = 4-5]		
* Liver		Angiectasis	Focal, Mild
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 1-13]		
	[Hypertrophy TGLS = 2-6+7]		
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLS = 5-13]		
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 3-11]		
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107543

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Angiectasis	Focal, Minimal
		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Granulomatous, Mild
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 44

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107544

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 2,4-6+7]		
* Lung		Inflammation	Granulomatous, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLS = 3-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 1-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45	TRT#: 9 DOSE: 300 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107545
OBSERVATIONS			
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 2-13]		
	[Hypertrophy TGLS = 1,3-6+7]		
* Lung		Inflammation	Granulomatous, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLS = 4-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,3-6+7]			
* Lung		Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 47

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,3-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung * Nose

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,4-6+7]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-6]			
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 3-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,3-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral	Hypospermia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Cholangiofibrosis	Minimal
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hepatocellular Adenoma TGLS = 6-13]			
[Hypertrophy TGLS = 2,3-6+7+13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 51	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107551

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Hyperplasia TGLS = 5-13]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
	[Pigmentation TGLS = 3-5]		
* Liver		Basophilic Focus	
		Cholangiofibrosis	Marked
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
	[Cholangiofibrosis TGLS = 2-13]		
	[Hypertrophy TGLS = 1,5-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 52	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107552

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 4-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
	[Pigmentation TGLS = 4-5]		
* Liver		Basophilic Focus	
		Cholangiofibrosis	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
	[Eosinophilic Focus TGLS = 2-13]	Mixed Cell Focus	
	[Hypertrophy TGLS = 1,5,6-6+7]		
* Lung		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 53	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107553

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 7-13]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 3-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Cholangiofibrosis	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,3-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107554

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes [Degeneration TGLS = 2-11]	Bilateral, Germinal Epith	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Heart		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Cholangiocarcinoma	Multiple
		Cholangiofibrosis	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
[Cholangiocarcinoma TGLS = 2-13]			
[Hypertrophy TGLS = 1,6-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 55	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107555

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 4-6]

* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Moderate
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 5-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Preputial Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Cholangiocarcinoma	Multiple
		Cholangiofibrosis	Marked
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Cholangiocarcinoma TGLS = 2-13]			
[Eosinophilic Focus TGLS = 2-13]			
[Hypertrophy TGLS = 1,5-6+7]			
[Mixed Cell Focus TGLS = 2-13]			
* Lung		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 56	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107556

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 4-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 2-5]			
* Liver		Cholangiofibrosis	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,4-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107557

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Submandibul GI

Cytoplasmic Alteration

Mild

* Stomach, Glandular

Epithelium, Glands

Atrophy

Mild

* Testes

Bilateral, Germinal Epith

Degeneration

Marked

[Degeneration TGLS = 3-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Esophagus		Inflammation	Chronic, Minimal
* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Cholangiofibrosis	Marked
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Cholangiofibrosis TGLS = 2-13+14]			
[Hypertrophy TGLS = 1,5-6+7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 58	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107558

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked

[Degeneration TGLS = 4-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Cholangiofibrosis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,5-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Lym Node Mesen			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107559

ORGAN AND ACCOUNTABLE SITE STATUS

Note: No corresponding microscopic lesion found for enlarged and reddened mesenteric lymph node.

Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Hyperplasia TGLS = 6-13]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 3-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Mild
	Cortex, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Cholangiofibrosis	Marked
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Cholangiofibrosis TGLS = 4-13]			
[Hypertrophy TGLS = 1,5-6+7]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Chromophobe CL, Pars Distalis	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 60	TRT#: 11	SEX: Male	DAY ON TEST: 93
	DOSE: 600 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107560

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Moderate
* Testes	Bilateral, Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Eye

* Intestine Large, Colon

* Intestine Small, Jejunum

* Mammary Gland

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Adrenal Medulla

* Brain

* Harderian Gland

* Intestine Large, Rectum

* Islets, Pancreatic

* Nose

* Pituitary Gland

* Stomach, Forestomach

* Trachea

* Blood Vessel

* Clitoral Gland

* Heart

* Intestine Small, Duodenum

* Lung

* Ovary

* Salivary Glands

* Stomach, Glandular

* Urinary Bladder

* Bone

* Esophagus

* Intestine Large, Cecum

* Intestine Small, Ileum

* Lymph Node, Mesenteric

* Pancreas

* Skin

* Thymus

* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney

Papilla, Renal Tubule

Mineralization

Minimal

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107562

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	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Lung	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107564

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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-7]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
* Liver	Inflammation	Chronic, Minimal
* Lung	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 2 DOSE: 0 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107566
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67	TRT#: 2 DOSE: 0 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0107567
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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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Cortex, Renal Tubule Papilla, Renal Tubule	Mineralization Mineralization	Minimal Minimal
* Liver		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107568

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	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
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: 0107569

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	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107570

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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	Lymph Node, Mesenteric	Nose	* Salivary Glands
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OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
Stomach, Glandular		Necrosis	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney Stomach, Glandular	Lymph Node, Mesenteric	Nose	* Salivary Glands
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OBSERVATIONS

* Liver	Bile Duct Oval Cell Periportal	Hyperplasia Hyperplasia Inflammation Inflammation	Minimal Minimal Chronic, Minimal Chronic, Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Salivary Glands
Stomach, Glandular			

OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric	Nose	* Salivary Glands	Stomach, Glandular
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OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Salivary Glands
Stomach, Glandular			

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric	Nose	* Salivary Glands	Stomach, Glandular
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OBSERVATIONS

* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 77	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	Lymph Node, Mesenteric	Nose	* Salivary Glands
Stomach, Glandular			

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-12]			
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Salivary Glands
Stomach, Glandular			

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Salivary Glands
Stomach, Glandular			

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

[Hepatodiaphragmatic Nodule TGLS = 1,2-12+13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney Stomach, Glandular	Lymph Node, Mesenteric	Nose	* Salivary Glands
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OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung	Bronchiole, Bronchus	Hyperplasia	Lymphoid, Mild
		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90	TRT#: 6	SEX: Female	DAY ON TEST: 93
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	Nose	* Stomach, Glandular
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OBSERVATIONS

* Kidney	Epithelium, Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
Mesentery		Accessory Spleen	Minimal
	Fat	Necrosis	Minimal
	[Accessory Spleen TGLS = 2-13]		
	[Necrosis TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric * Nose

OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

* Nose

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Lung	Lymph Node, Mesenteric	* Nose
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OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung * Nose

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung	Lymph Node, Mesenteric	* Nose
--------	------------------------	--------

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 97

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

Lymph Node, Mesenteric

* Nose

OBSERVATIONS

* Kidney

Papilla, Renal Tubule

Mineralization

Minimal

* Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Minimal

Oval Cell

Hyperplasia

Minimal

Hepatocyte

Hypertrophy

Minimal

Periportal

Infiltration Cellular

Histiocyte, Minimal

Periportal

Inflammation

Chronic, Minimal

Inflammation

Chronic, Minimal

Mixed Cell Focus

[Hepatodiaphragmatic Nodule TGLS = 1-12]

[Mixed Cell Focus TGLS = 1-12]

* Salivary Glands

Submandibul GI

Cytoplasmic Alteration

Minimal

* Stomach, Glandular

Epithelium, Glands

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric * Nose

OBSERVATIONS

* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 99	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lung	Lymph Node, Mesenteric
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OBSERVATIONS

* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100	TRT#: 8	SEX: Female	DAY ON TEST: 93
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	Periportal	Infiltration Cellular	Histiocyte, Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

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: 0107603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
	[Hypertrophy TGLS = 2,3-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal
		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:39
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 300 MG/KG	DISP: Terminal Sacrifice	HISTO: 0107609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mesenteric

OBSERVATIONS

* Kidney	Medulla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 111

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Hyperplasia	Focal, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 113 **TRT#:** 12 **SEX:** Female **DAY ON TEST:** 93
DOSE: 600 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0107613

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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 3,4-6+7]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Minimal
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 1-12]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107613

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/22/2014
Time Report Requested: 17:35:40
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Myocardium	Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Renal Tubule	Infiltration Cellular Regeneration Basophilic Focus Eosinophilic Focus	Lymphocyte, Minimal Minimal
* Liver	Bile Duct Oval Cell Hepatocyte Periportal Periportal	Hyperplasia Hyperplasia Hypertrophy Infiltration Cellular Inflammation Mixed Cell Focus	Mild Moderate Marked Histiocyte, Mild Chronic, Mild
	[Hypertrophy TGLS = 1,3-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 2-6]		
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 114

TRT#: 12

DOSE: 600 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 0107614

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107615

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	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2- 6+7]		
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107616

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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule Renal Tubule	Mineralization Regeneration Basophilic Focus Eosinophilic Focus	Minimal Minimal
* Liver	Bile Duct Oval Cell Hepatocyte Periportal Periportal	Hyperplasia Hyperplasia Hypertrophy Infiltration Cellular Inflammation Mixed Cell Focus	Mild Moderate Marked Histiocyte, Mild Chronic, Mild
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia Infiltration Cellular	Lymphoid, Mild Histiocyte, Mild
	[Hyperplasia TGLS = 3-6] [Infiltration Cellular TGLS = 3-6]		
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107616

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107617

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	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Minimal Minimal
* Liver	Bile Duct	Basophilic Focus Cholangiofibrosis	Mild
	Oval Cell	Eosinophilic Focus Hyperplasia	Mild
	Hepatocyte	Hyperplasia	Moderate
	Periportal	Hypertrophy	Marked
	Periportal	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung	Pancreatic	Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia Infiltration Cellular	Lymphoid, Moderate Histiocyte, Mild
	[Hyperplasia TGLS = 3-12]		
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107617

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107618

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	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule Renal Tubule	Mineralization Regeneration Basophilic Focus Clear Cell Focus Eosinophilic Focus	Minimal Minimal
* Liver	Bile Duct Oval Cell Hepatocyte Periportal Periportal	Hyperplasia Hyperplasia Hypertrophy Infiltration Cellular Inflammation Mixed Cell Focus	Mild Moderate Marked Histiocyte, Mild Chronic, Mild
[Hypertrophy TGLS = 1,2-6+7]			
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107619

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	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Papilla, Renal Tubule Renal Tubule	Infiltration Cellular Mineralization Regeneration Basophilic Focus Eosinophilic Focus	Lymphocyte, Minimal Minimal Minimal
* Liver	Bile Duct Oval Cell Hepatocyte Periportal Periportal	Hyperplasia Hyperplasia Hypertrophy Infiltration Cellular Inflammation Mixed Cell Focus	Mild Moderate Marked Histiocyte, Mild Chronic, Mild
[Hypertrophy TGLS = 1,2-6+7]			
* Lung	Pancreatic Pancreatic	Inflammation Hyperplasia Infiltration Cellular	Chronic, Minimal Lymphoid, Mild Histiocyte, Mild
[Hyperplasia TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 12

DOSE: 600 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 0107619

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Cortex, Renal Tubule	Mineralization	Minimal
	Papilla, Renal Tubule	Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Marked
	Periportal	Infiltration Cellular	Histiocyte, Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 1,2-6+7]		
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	[Hyperplasia TGLS = 3-12]		
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands	Submandibul GI	Cytoplasmic Alteration	Mild
* Stomach, Glandular	Epithelium, Glands	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60946-01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:35:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 600 MG/KG

DISP: Terminal Sacrifice

HISTO: 0107620

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE