

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C93011B
<b>Lock Date:</b>	04/02/1997
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605811

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* 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		

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Stom Forestom		
Note: PCNA stain +1		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605812

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* 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

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]		
* Stom Forestom		
Note: PCNA stain +1		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605813

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* 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		

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**OBSERVATIONS**

* Liver	Basophilic Focus
* Stom Forestom	
Note: PCNA stain +1	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605814

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* 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

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**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Intestine Large, Rectum	Parasite Metazoan	
* Kidney	Nephropathy	Minimal
* Stom Forestom		

Note: PCNA stain +1

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                  | * Epididymis                | * Esophagus              |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                    | * Lymph Node, Mandibular |
| * 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           |                          |

OBSERVATIONS

- |                           |                |                   |                         |
|---------------------------|----------------|-------------------|-------------------------|
| * Heart                   |                | Cardiomyopathy    | Minimal                 |
| * Intestine Large, Rectum |                | Parasite Metazoan |                         |
| * Liver                   |                | Inflammation      | Chronic Active, Minimal |
| * Lung                    | Alveolar Epith | Hyperplasia       | Mild                    |
| * Stom Forestom           |                |                   |                         |
| Note: PCNA stain +1       |                |                   |                         |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605816

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* 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

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Stom Forestom		

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Preputial Gland

OBSERVATIONS

- |                     |              |                         |
|---------------------|--------------|-------------------------|
| * Kidney            | Nephropathy  | Minimal                 |
| * Liver             | Inflammation | Chronic Active, Minimal |
| * Stom Forestom     |              |                         |
| Note: PCNA stain +1 |              |                         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605818
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* 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

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**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Stom Forestom		

Note: PCNA stain +1

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 9605819

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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			

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Stom Forestom		

Note: PCNA stain +1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605820

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**OBSERVATIONS**

\* Kidney  
\* Liver  
\* Stom Forestom

Nephropathy  
Inflammation

Minimal  
Chronic Active, Minimal

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 11

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605821

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach, Forestomach

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**OBSERVATIONS**

Liver

Inflammation

Chronic Active, Minimal

Stom Forestom

Note: PCNA stain +2

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 781 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605822

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach, Forestomach

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**OBSERVATIONS**

Liver	Inflammation	Chronic Active, Minimal
Stom Forestom		
Note: PCNA stain +1		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 13

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605823

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver

Stomach, Forestomach

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**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 781 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605824

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach, Forestomach

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**OBSERVATIONS**

Liver	Hepatodiaphragmatic Nodule Inflammation	Chronic Active, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]		
Stom Forestom		
Note: PCNA stain +2		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 781 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605825

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach, Forestomach

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**OBSERVATIONS**

Liver	Inflammation	Chronic Active, Minimal
Stom Forestom		
Note: PCNA stain +2		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 781 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605826

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

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**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +1

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 17

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605827

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +1

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 18

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605828

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach  
Note: PCNA stain +1

Epithelium

Inflammation  
Hyperkeratosis

Chronic Active, Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 19

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605829

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 781 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605830

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +1

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 21

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605831

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach  
Note: PCNA Stain +2

Epithelium

Inflammation  
Hyperkeratosis

Chronic Active, Minimal  
Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 22

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605832

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 23

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605833

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 24

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605834

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Liver

Inflammation

Chronic Active, Minimal

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 25

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605835

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Inflammation  
Hyperkeratosis  
Hyperplasia

Chronic Active, Minimal  
Mild  
Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 26

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605836

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1562 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605837

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Minimal

Note: PCNA stain +2

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 28	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1562 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605838

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach  
Note: PCNA stain +2

Epithelium

Hyperkeratosis

Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 29

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605839

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-7 ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 30	<b>TRT#:</b> 5 <b>DOSE:</b> 1562 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605840
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---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach  
Note: PCNA stain +2

Epithelium

Hyperkeratosis

Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 31

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605841

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Inflammation  
Hyperkeratosis  
Hyperplasia

Chronic Active, Minimal  
Mild  
Mild

---

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

---



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 3125 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605842

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 3125 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605843

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 3125 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605844

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 35

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605845

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Inflammation  
Hyperkeratosis  
Hyperplasia

Chronic Active, Minimal  
Mild  
Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 36

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605846

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Liver Hepatodiaphragmatic Nodule

Note: TGL#2-NCL: Right Anterior Lobe Deformity (HDN) documented at necropsy, not apparent at trim.

[ Hepatodiaphragmatic Nodule TGLS = 1-8: Hepatodiaphragmatic Nodule ]

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 37

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605847

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Inflammation  
Hyperkeratosis  
Hyperplasia

Chronic Active, Minimal  
Mild  
Minimal

---

Note: PCNA stain +2

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 3125 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605848

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 3125 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605849

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

---

**OBSERVATIONS**

Stomach, Forestomach	Epithelium	Hyperkeratosis	Minimal
	Epithelium	Hyperplasia	Minimal

Note: PCNA stain +2

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 40

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605850

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

Inflammation

Chronic Active, Minimal

[ Hepatodiaphragmatic Nodule TGLS = 1-8: Hepatodiaphragmatic Nodule ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 41

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605851

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Cytoplasmic Alteration  
Hyperkeratosis  
Hyperplasia

Minimal  
Moderate  
Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 42

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605852

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Cytoplasmic Alteration  
Hyperkeratosis  
Hyperplasia

Minimal  
Mild  
Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 43

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605853

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Cytoplasmic Alteration  
Hyperkeratosis  
Hyperplasia

Minimal  
Moderate  
Moderate

---

Note: PCNA stain +3

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 9 <b>DOSE:</b> 6250 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605854
<b>OBSERVATIONS</b>			
Liver		Cytoplasmic Alteration Hepatodiaphragmatic Nodule	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ] Stomach, Forestomach Note: PCNA stain +3	Epithelium	Hyperkeratosis	Mild
<hr/>			
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 45

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605855

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**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Cytoplasmic Alteration  
Hyperkeratosis  
Hyperplasia

Minimal  
Mild  
Mild

---

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 46

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605856

---

**OBSERVATIONS**

Liver		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Minimal

Note: PCNA stain +3

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 47

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605857

---

**OBSERVATIONS**

Liver  
Stomach, Forestomach

Epithelium  
Epithelium

Cytoplasmic Alteration  
Hyperkeratosis  
Hyperplasia

Minimal  
Mild  
Mild

---

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 48

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605858

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**OBSERVATIONS**

Liver		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 9 <b>DOSE:</b> 6250 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605859
<b>OBSERVATIONS</b>			
Liver		Cytoplasmic Alteration Hepatodiaphragmatic Nodule Inflammation	Minimal  Chronic Active, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]			
Stomach, Forestomach	Epithelium Epithelium	Hyperkeratosis Hyperplasia	Mild Mild
Note: PCNA stain +3			
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 50

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605860

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**OBSERVATIONS**

Liver  
Stomach, Forestomach  
Note: PCNA stain +3

Epithelium

Cytoplasmic Alteration  
Hyperkeratosis

Minimal  
Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 51

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605861

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                        |            |                        |                      |
|------------------------|------------|------------------------|----------------------|
| * Kidney               |            | Nephropathy            | Minimal              |
| * Liver                |            | Cytoplasmic Alteration | Minimal              |
| * Lung                 |            | Inflammation           | Chronic Active, Mild |
| * Stomach, Forestomach | Epithelium | Hyperkeratosis         | Moderate             |
|                        | Epithelium | Hyperplasia            | Moderate             |

Note: PCNA stain +4

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 12,500 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605862

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Cytoplasmic Alteration	Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Moderate
	Epithelium	Hyperplasia	Mild

---

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 53

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Cytoplasmic Alteration	Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +4

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 54	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 12,500 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605864

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Liver		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Moderate
	Epithelium	Hyperplasia	Moderate

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Note: PCNA stain +4

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |                        |            |                        |                         |
|------------------------|------------|------------------------|-------------------------|
| * Liver                |            | Cytoplasmic Alteration | Minimal                 |
|                        |            | Inflammation           | Chronic Active, Minimal |
| * Lung                 |            | Inflammation           | Chronic Active, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperkeratosis         | Moderate                |
|                        | Epithelium | Hyperplasia            | Mild                    |

Note: PCNA stain +4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 56	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 12,500 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605866

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

---

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Cytoplasmic Alteration	Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Moderate
	Epithelium	Hyperplasia	Moderate

---

Note: PCNA stain +4

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 12,500 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605867

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Marked
	Epithelium	Hyperplasia	Moderate

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Note: PCNA stain +4

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |                        |            |                        |                         |
|------------------------|------------|------------------------|-------------------------|
| * Heart                |            | Cardiomyopathy         | Minimal                 |
| * Kidney               |            | Nephropathy            | Minimal                 |
| * Liver                |            | Cytoplasmic Alteration | Minimal                 |
|                        |            | Inflammation           | Chronic Active, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperkeratosis         | Moderate                |
|                        | Epithelium | Hyperplasia            | Moderate                |

Note: PCNA stain +4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Minimal
* Stomach, Forestomach	Epithelium Epithelium	Hyperkeratosis Hyperplasia	Moderate Mild

Note: PCNA stain +3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 11

SEX: Male

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |                        |            |                        |          |
|------------------------|------------|------------------------|----------|
| * Heart                |            | Cardiomyopathy         | Minimal  |
| * Kidney               |            | Nephropathy            | Minimal  |
| * Liver                |            | Cytoplasmic Alteration | Minimal  |
| * Stomach, Forestomach | Epithelium | Hyperkeratosis         | Marked   |
|                        | Epithelium | Hyperplasia            | Moderate |

Note: PCNA stain +4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 61

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Liver	Hepatodiaphragmatic Nodule Inflammation	Chronic Active, Mild
[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]		
* Stom Forestom		
Note: PCNA stain +1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 9605872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |          |                            |                         |
|----------|----------------------------|-------------------------|
| * Kidney | Mineralization             | Minimal                 |
| * Liver  | Hepatodiaphragmatic Nodule |                         |
|          | Inflammation               | Chronic Active, Minimal |

[ Hepatodiaphragmatic Nodule TGLS = 2-8: Hepatodiaphragmatic Nodule ]

- \* Ovary  
Note: TGL#1-11-NCL: Ovarian cyst, documented at necropsy, not apparent histologically.

- \* Stom Forestom  
Note: PCNA stain +1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 2  
**DOSE:** 0 PPM

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

**DAY ON TEST:** 92  
**HISTO:** 9605873

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney	Mineralization	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Stom Forestom		

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 9605874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * 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                 |                            |                           |

OBSERVATIONS

- |                     |                |                |                         |
|---------------------|----------------|----------------|-------------------------|
| * Kidney            |                | Mineralization | Minimal                 |
|                     |                | Nephropathy    | Minimal                 |
| * Liver             |                | Inflammation   | Chronic Active, Minimal |
| * Lung              | Alveolar Epith | Inflammation   | Chronic Active, Minimal |
| * Stom Forestom     |                |                |                         |
| Note: PCNA stain +1 |                |                |                         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 9605875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |  |              |                         |
|--|--------------|-------------------------|
| * Clitoral Gland<br>[ Cyst TGLS = 1-11: Cyst, Mild ] | Cyst         | Mild                    |
| * Liver  | Inflammation | Chronic Active, Minimal |
| * Stom Forestom<br>Note: PCNA stain +1               |              |                         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 66

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605876

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Liver  
\* Stom Forestom  
Note: PCNA stain +1

Inflammation

Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 67

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605877

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Liver  
\* Stom Forestom  
Note: PCNA stain +1

Inflammation

Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 68

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605878

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Liver  
\* Stom Forestom

Inflammation

Chronic Active, Minimal

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 69

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605879

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Liver

Hepatodiaphragmatic Nodule  
Inflammation

Chronic Active, Minimal

[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]

\* Stom Forestom

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 70

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605880

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Stom Forestom		

Note: PCNA stain +1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 71

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605881

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 72

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605882

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 73

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605883

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 74

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605884

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 76

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605886

---

**OBSERVATIONS**

Liver [ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ] Hepatodiaphragmatic Nodule

Stomach, Forestomach Epithelium Hyperkeratosis Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 4 <b>DOSE:</b> 781 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605887
<b>OBSERVATIONS</b>			
Liver [ Hepatodiaphragmatic Nodule TGLS = 1-8: Hepatodiaphragmatic Nodule ]		Hepatodiaphragmatic Nodule	
Stomach, Forestomach Note: PCNA stain +2	Epithelium	Hyperkeratosis	Minimal
<hr/>			
PRIMARY CAUSE OF DEATH	-		

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 78

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605888

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 4 <b>DOSE:</b> 781 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 9605889
<b>OBSERVATIONS</b>			
Liver	[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]	Hepatodiaphragmatic Nodule	
Stomach, Forestomach Note: PCNA stain +2	Epithelium	Hyperkeratosis	Minimal
<hr/>			
PRIMARY CAUSE OF DEATH	-		

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 80

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 781 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605890

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 81

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605891

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 83

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605893

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 84

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605894

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 85

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605895

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 86

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605896

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 87

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605897

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 88

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605898

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 89

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605899

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 90

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1562 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605900

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 91

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605901

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 92

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605902

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Minimal

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 93

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605903

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 94

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605904

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 95

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605905

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 96

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605906

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 97

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605907

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 98

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605908

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 99

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605909

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Minimal

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 100

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 3125 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605910

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach, Forestomach

---

**OBSERVATIONS**

Stom Forestom

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 101

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605911

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-8: Hepatodiaphragmatic Nodule ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 102

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605912

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 103

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605913

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 104

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605914

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 105

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605915

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

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**ANIMAL ID:** 106

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605916

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**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 107

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605917

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 108

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605918

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-7: Hepatodiaphragmatic Nodule ]

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 109

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605919

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

---

**ANIMAL ID:** 110

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 6250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605920

---

**OBSERVATIONS**

Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Minimal

Note: PCNA stain +2

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 111

**TRT#:** 12  
**DOSE:** 12,500 PPM

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

**DAY ON TEST:** 92  
**HISTO:** 9605921

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 112	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 12,500 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9605922

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

---

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605923

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Ovary		Cyst	Mild
[ Cyst TGLS = 1-11: Cyst, Mild ]			
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** p-tert-Butylcatechol

**CAS Number:** 98-29-3

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

**Time Report Requested:** 11:34:17

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

**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605924

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Blood Vessel

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Kidney

\* Lung

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Pituitary Gland

\* Salivary Glands

\* Skin

\* Spleen

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

\* Uterus

**OBSERVATIONS**

\* Liver

Inflammation

Chronic Active, Minimal

\* Stomach, Forestomach

Epithelium

Hyperkeratosis

Mild

Epithelium

Hyperplasia

Mild

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605925

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605926

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Inflammation	Chronic Active, Mild
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605927

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Moderate
	Epithelium	Hyperplasia	Moderate

Note: PCNA stain +4

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 93011-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** p-tert-Butylcatechol  
**CAS Number:** 98-29-3

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 11:34:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 118

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 12,500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 9605928

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach	Epithelium	Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Mild

Note: PCNA stain +3

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |                        |            |                |                         |
|------------------------|------------|----------------|-------------------------|
| * Kidney               |            | Nephropathy    | Minimal                 |
| * Liver                |            | Inflammation   | Chronic Active, Minimal |
| * Lung                 |            | Inflammation   | Chronic Active, Mild    |
| * Stomach, Forestomach | Epithelium | Hyperkeratosis | Mild                    |
|                        | Epithelium | Hyperplasia    | Mild                    |

Note: PCNA stain +3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 93011-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-tert-Butylcatechol

CAS Number: 98-29-3

Date Report Requested: 10/21/2014

Time Report Requested: 11:34:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12,500 PPM

DISP: Terminal Sacrifice

HISTO: 9605930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Heart

\* Intestine Small, Duodenum

\* Lung

\* Nose

\* Pituitary Gland

\* Stomach, Glandular

\* Urinary Bladder

\* Adrenal Medulla

\* Brain

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Lymph Node, Mandibular

\* Ovary

\* Salivary Glands

\* Thymus

\* Uterus

\* Blood Vessel

\* Clitoral Gland

\* Intestine Large, Colon

\* Intestine Small, Jejunum

\* Lymph Node, Mesenteric

\* Pancreas

\* Skin

\* Thyroid Gland

\* Bone

\* Esophagus

\* Intestine Large, Rectum

\* Islets, Pancreatic

\* Mammary Gland

\* Parathyroid Gland

\* Spleen

\* Trachea

OBSERVATIONS

\* Kidney

\* Liver

\* Stomach, Forestomach

Nephropathy

Inflammation

Hyperkeratosis

Hyperplasia

Minimal

Chronic Active, Minimal

Moderate

Moderate

Note: PCNA stain +4

PRIMARY CAUSE OF DEATH

-

\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE