

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**C Number:** C62157  
**Lock Date:** 08/04/1992  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 09/13/1994



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Moderate
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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57189

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 8-25 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
[ Eosinophilic Focus TGLS = 9-26 ]			
[ Hepatocellular Carcinoma TGLS = 4-23, 5-24 ]			
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 10-6 ]		Lymphoma Malignant	
Mesentery [ Lymphoma Malignant TGLS = 2-21 ]		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Marked
		Inflammation	Chronic, Marked
[ Degeneration TGLS = 1-8 ]			
[ Inflammation TGLS = 1-8 ]			
* Spleen [ Lymphoma Malignant TGLS = 3-22 ]		Lymphoma Malignant	
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60412

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth	Incisor	Dysplasia	Moderate
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60544

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Prostate

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
* Preputial Gland		Degeneration	Cystic, Marked
[ Degeneration TGLS = 1-8-1 ]			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 705
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Natural Death	<b>HISTO:</b> 91-60187

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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric	Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH	- Liver Hepatocellular Carcinoma
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 647
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Natural Death	<b>HISTO:</b> 91-59914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow	Myelofibrosis	Moderate
* Kidney	Nephropathy	Mild
* Liver	Eosinophilic Focus	Moderate
	Necrosis	Focal, Mild
[ Eosinophilic Focus TGLS = 4-22 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]		
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Moderate
* Preputial Gland	Degeneration	Cystic, Marked
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]		

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:14  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60545

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	[ Hyperplasia TGLS = 2-21 ]		
* Stomach, Glandular		Erosion	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Eosinophilic Focus	Mild
	Fatty Change	Focal, Minimal
	Hepatocellular Adenoma	
Note: TGL 4-22 = NCL [ Hepatocellular Adenoma TGLS = 3-21 ]		
* Lymph Node, Mesenteric	Hemorrhage	Mild
	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-5 ]		
* Preputial Gland	Inflammation	Chronic, Moderate
* Sem Ves		
Note: Seminal vesicle: dilatation, moderate (TGL 1-7-1).		
Tooth	Incisor	Dysplasia
		Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60547

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Stomach, Forestomach	* Stomach, Glandular
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**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Liver	Eosinophilic Focus	Minimal
	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Preputial Gland	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- Coagulat GI
  - Note: Coagulating gland: dilatation, moderate (TGL 3-7).
- \* Intestine Small, Jejunum
  - [ Lymphoma Malignant TGLS = 6-23 ]
- \* Kidney
  - [ Angiectasis TGLS = 4-21 ]
- \* Liver
  - [ Angiectasis TGLS = 4-21 ]
- \* Lymph Node, Mesenteric
  - [ Lymphoma Malignant TGLS = 5-22 ]
- \* Sem Ves
  - Note: Seminal vesicle: dilatation, moderate (TGL 2-7).
- Tooth
  - Incisor
    - Dysplasia

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57190

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60548

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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			

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 2-6, 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Minimal
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate.			
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60444

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Heart		Hemangiosarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	Multiple
		Hepatocellular Adenoma	
[ Hemangiosarcoma TGLS = 2-23, 3-24, 4-25 ]			
[ Hepatocellular Adenoma TGLS = 6-26 ]			
* Lymph Node, Mesenteric		Ectasia	Moderate
[ Ectasia TGLS = 7-5 ]			
Mesentery	Artery	Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Lipoma	
[ Lipoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-22 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Multiple, Mild
		Hepatocellular Adenoma	
		[ Clear Cell Focus TGLS = 3-23 ]	
		[ Hepatocellular Adenoma TGLS = 1-21 ]	
* Lung		Alveolar/Bronchiolar Adenoma	
		[ Alveolar/Bronchiolar Adenoma TGLS = 2-22 ]	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hemangiosarcoma	
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 712

DOSE: UNTREATDCONTROL

DISP: Natural Death

HISTO: 91-60188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Pancreas

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Focal, Mild
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
* Skin	Epidermis	Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Focal, Mild
		Ulcer	Moderate
[ Ulcer TGLS = 3-21 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Angiectasis	Mild
* Kidney		Nephropathy	Mild
* Liver		Hemangiosarcoma	Multiple
		Hematopoietic Cell Proliferation	Mild
		Inflammation	Focal, Mild
	[ Hemangiosarcoma TGLS = 3-21; 4-22; 8-25 ]		
	[ Inflammation TGLS = 7-24 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLS = 6-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8, 2-8 ]		
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 5-23 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60549

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ]		

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Epididymis		Hemangioma	
[ Hemangioma TGLS = 4-7-1 ]			
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Intestine Small, Ileum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-22 ]			
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 8-23 ]			
Lymph Node	Inguinal	Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-8 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-5 ]			
* Preputial Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60446

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLS = 7-3-1 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 21	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57191

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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
* Gallbladder	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**OBSERVATIONS**

* Testes	Granuloma Sperm	Mild
[ Granuloma Sperm TGLS = 1-7 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60550

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

**MISSING**

- \* Mammary Gland

**INSUFFICIENT TISSUE**

- \* Pituitary Gland

**OBSERVATIONS**

- \* Adrenal Cortex
- \* Kidney

Accessory Adrenal Cortical Nodule  
Nephropathy

Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 23	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60551

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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
* Gallbladder	* 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	* 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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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
Tooth	Incisor	Dysplasia	Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 5-21,4-6,4-6-1 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 7-2-1 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLS = 6-5 ]		
* Nose		Inflammation	Suppurative, Moderate
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[ Degeneration TGLS = 1-8-1 ]		
	[ Inflammation TGLS = 1-8-1 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH - Tooth Incisor Dysplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hemangioma	
		Thrombosis	Mild
	[ Hemangioma TGLS = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-22 ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: UNTREATDCONTROL

DISP: Scheduled Sacrifice

HISTO: 91-57192

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Liver	Basophilic Focus	Mild
	Fatty Change	Focal, Mild

[ Fatty Change TGLS = 1-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60552

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**INSUFFICIENT TISSUE**

\* Pituitary Gland

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**OBSERVATIONS**

* Kidney		Cyst	Mild
		Nephropathy	Mild
[ Cyst TGLS = 2-21 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Mild
* Spleen		Accessory Spleen	Mild
[ Accessory Spleen TGLS = 1-6-1 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder	Zymbal's Gland	

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Multiple, Mild
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 4-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Histiocytic, Moderate
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2-1 ]		
* Sem Ves			
	Note: Seminal vesicle: dilatation, moderate (TGL 2-7-1).		
* Thymus		Cyst	Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	Zymbal's Gland
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OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 3-22 ]		
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lymph Node, Mesenteric		Ectasia	Moderate
		Hemorrhage	Mild
	[ Ectasia TGLS = 4-5-1 ]		
	[ Hemorrhage TGLS = 4-5-1 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Sem Ves			
	Note: Seminal vesicle: dilatation, moderate		
	Note: Seminal vesicle: dilatation, moderate (TGL 5-7-1).		
* Stomach, Glandular		Mineralization	Minimal
Tooth	Incisor	Dysplasia	Moderate
	[ Dysplasia TGLS = 6-9 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60447

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60555

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	Marked
[ Mixed Cell Focus TGLS = 3-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2, 2-2-1 ]			
* Pancreas		Atrophy	Diffuse, Marked
	Duct	Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Parathyroid Gland		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 4-21 ]		
	[ Hepatocellular Carcinoma TGLS = 5-22 ]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 3-5 ]		
* Preputial Gland		Degeneration	Cystic, Marked
	[ Degeneration TGLS = 2-8 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-8-1, 6-8-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Moderate
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7-1).			
* Thymus		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
[ Adenoma TGLS = 4-3 ]			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-2-1 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-21 ]		
* Sem Ves			
	Note: Seminal vesicle: dilatation, moderate (TGL 3-7, 3-7-1).		
* Skin		Alopecia	Mild
	[ Alopecia TGLS = 5-23 ]		
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 651

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart	Inflammation	Chronic, Focal, Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	Mild
	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]		

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 539

DOSE: UNTREATDCONTROL

DISP: Natural Death

HISTO: 91-59917

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Heart		Inflammation	Chronic, Focal, Minimal
* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7-1, 2-7-2).			
Note: Seminal vesicle: hemorrhage, mild (TGL 3-7-2).			
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Seminal vesicle: hemorrhage, mild (TGL 3-7-2)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 38

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57193

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Basophilic Focus	Mild
	Necrosis	Focal, Minimal
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
	Fibrosis	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 595

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Kidney	Renal Tubule	Dilatation Nephropathy	Diffuse, Moderate Mild
	[ Dilatation TGLS = 3-5 ] [ Nephropathy TGLS = 3-5 ]		
* Liver		Eosinophilic Focus Hemangiosarcoma Hepatocellular Adenoma	Minimal
	[ Hemangiosarcoma TGLS = 4-21 ] [ Hepatocellular Adenoma TGLS = 5-22 ]		
Skeletal Muscle		Hemangiosarcoma	Multiple
	Note: Hemangiosarcoma is located at lumbosacral region and left hindlimb. [ Hemangiosarcoma TGLS = 6-24, 7-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Small, Ileum	Carcinoma	
* Kidney	Nephropathy	Minimal
* Liver	Fatty Change	Focal, Minimal
	Hepatocellular Adenoma	Multiple

[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 6-21 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
	Hyperplasia	Histiocytic, Moderate
[ Alveolar/Bronchiolar Adenoma TGLS = 9-2-1 ]		
* Preputial Gland	Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8 ]		
Tooth	Incisor	Dysplasia
		Marked

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Adenoma

CONTRIBUTORY CAUSE OF DEATH - Tooth Incisor Dysplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 42

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57194

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |         |  |                        |      |
|---------|--|------------------------|------|
| * Liver |  | Hepatocellular Adenoma |      |
|         | [ Hepatocellular Adenoma TGLS = 2-21 ] |                        |      |
| Tooth   | Incisor                                | Dysplasia              | Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60556

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Fatty Change	Focal, Minimal
	[ Basophilic Focus TGLS = 3-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2-1 ]		
Lymph Node	Inguinal	Hyperplasia	Moderate
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland	Bilateral	Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-22,3-23 ]			
* Stomach, Forestomach		Erosion	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
[ Hyperplasia TGLS = 4-4, 4-4-1 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 7-22 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Liver  [ Hepatocellular Adenoma TGLS = 6-21 ]		Clear Cell Focus Hepatocellular Adenoma	Multiple, Minimal
* Preputial Gland  [ Degeneration TGLS = 1-8 ] [ Inflammation TGLS = 2-8 ]		Degeneration Inflammation	Cystic, Moderate Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Focal, Mild
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57195

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* 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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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 651

DOSE: UNTREATDCONTROL

DISP: Accidentally Killed

HISTO: 91-59919

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[ Hemorrhage TGLS = 3-5 ]			
Skeletal Muscle		Mineralization	Focal, Mild
[ Mineralization TGLS = 5-22 ]			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60558

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic [ Adenoma TGLS = 5-21 ]		Adenoma	
* Kidney		Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 9-24,6-22 ]		Hepatocellular Adenoma	Multiple
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 7-2, 7-2-1 ]		Alveolar/Bronchiolar Adenoma	
* Preputial Gland [ Degeneration TGLS = 1-8, 2-8 ]		Degeneration	Cystic, Moderate
* Skin [ Basal Cell Carcinoma TGLS = 8-23 ]		Basal Cell Carcinoma	
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57196

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- |                 |                     |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- |  |                |                        |                |
|--|----------------|------------------------|----------------|
| Coagulat GI                                    |                |                        |                |
| Note: Coagulating gland: dilatation, moderate. |                |                        |                |
| * Kidney                                       |                | Nephropathy            | Mild           |
| * Liver  |                | Hepatocellular Adenoma |                |
| [ Hepatocellular Adenoma TGLS = 1-21 ]         |                |                        |                |
| * Nose   | Glands, Mucosa | Dilatation             | Focal, Minimal |
| * Sem Ves                                      |                |                        |                |
| Note: Seminal vesicle: dilatation, moderate.   |                |                        |                |
| * Thymus                                       |                | Cyst                   | Minimal        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57197

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Cyst	Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60559

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
Tooth	Incisor	Dysplasia	Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[ Hemorrhage TGLS = 1-5 ]			
* Nose		Inflammation	Suppurative, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 1-21 ]	Adenoma	
* Kidney	Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 4-23,6-25 ] [ Mixed Cell Focus TGLS = 5-24 ]	Hepatocellular Adenoma Mixed Cell Focus	Multiple Moderate
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 7-2-1 ]	Alveolar/Bronchiolar Adenoma	
* Preputial Gland [ Inflammation TGLS = 2-22 ]	Degeneration Inflammation	Cystic, Moderate Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
* Skin		Inflammation	Chronic, Focal, Mild
[ Inflammation TGLS = 1-22 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

\* Mammary Gland

OBSERVATIONS

Coagulat GI			
Note: Coagulating gland: dilatation, moderate.			
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 3-5 ]			
* Preputial Gland		Degeneration	Cystic, Marked
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 4-7).			
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 57

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57198

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

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Animal Note: PART OF ONE ADRENAL GLAND IS MISSING.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 58	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60562

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Kidney	Nephropathy	Mild
* Liver	Clear Cell Focus	Mild
	Mixed Cell Focus	Mild
[ Clear Cell Focus TGLS = 3-21 ]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
[ Hemorrhage TGLS = 4-5 ]		
* Sem Ves		
Note: Seminal vesicle: dilatation, moderate (TGL 2-7-1).		
* Thymus	Cyst	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 59	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 2-22,3-23 ]		
[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Brain		Atrophy	Focal, Marked
[ Atrophy TGLS = 5-1 ]			
Coagulat GI			
Note: Coagulating gland: dilatation, moderate (TGL 3-7).			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Preputial Gland		Degeneration	Cystic, Mild
		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7).			
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 61	TRT#: 3 DOSE: 0.125%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 91-60725
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60398
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Marked
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

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Animal Note: ADRENAL GLANDS SHOW PROCESSING ARTIFACT.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60726

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Intestine Small, Jejunum [ Hyperplasia TGLS = 6-24 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 3-21, 4-22 ]		Hepatocellular Adenoma	Multiple
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 5-23 ]		Hemorrhage	Moderate
Mesentery	Fat	Necrosis	Minimal
* Parathyroid Gland		Cyst	Minimal
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Minimal
* Stomach, Glandular	Epithelium	Hyperplasia	Cystic, Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 3-21 ]	Adenoma	
* Kidney	Nephropathy	Mild
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]	Alveolar/Bronchiolar Carcinoma Hyperplasia	Histiocytic, Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate
* Thymus	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 67	TRT#: 3 DOSE: 0.125%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 91-60399
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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
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ]	Alveolar/Bronchiolar Adenoma	
* Spleen [ Hemangiosarcoma TGLS = 2-21 ]	Hemangiosarcoma	
* Thymus	Cyst	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 3-21, 4-22, 5-23 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Subcut Tiss	Mineralization	Focal, Mild
	Subcut Tiss	Necrosis	Focal, Mild
[ Mineralization TGLS = 6-24 ]			
[ Necrosis TGLS = 6-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57247

**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

\* 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**

\* Gallbladder

\* Mammary Gland

**OBSERVATIONS**

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 2-21 ]

\* Preputial Gland

Degeneration

[ Degeneration TGLS = 1-8 ]

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60728

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Nose		Inflammation	Suppurative, Moderate
	Mucosa	Polyp, Inflammatory	Mild
* Prostate			
Note: Prostate gland: dilatation, moderate (TGL 1-7).			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7).			
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57248

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 72	TRT#: 3 DOSE: 0.125%	SEX: Male DISP: Natural Death	DAY ON TEST: 710 HISTO: 91-60205
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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

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**MISSING**

* Mammary Gland	* Pituitary Gland
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**INSUFFICIENT TISSUE**

\* Thymus

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**OBSERVATIONS**

* Islets, Pancreatic	Adenoma	
* Preputial Gland [ Degeneration TGLS = 1-21 ]	Degeneration	Cystic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia
		Minimal

---

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
[ Hemorrhage TGLS = 3-5 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
		Inflammation	Suppurative, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60451

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Minimal
		[ Hepatocellular Adenoma TGLS = 2-22 ]	
		[ Hepatocellular Carcinoma TGLS = 1-21 ]	
		[ Mixed Cell Focus TGLS = 3-23 ]	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- |                 |          |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

Coagulat GI

Note: Coagulating gland: dilatation, moderate.

- |           |                  |         |
|-----------|------------------|---------|
| * Kidney  | Nephropathy      | Mild    |
| * Liver   | Clear Cell Focus | Minimal |
| * Sem Ves |                  |         |

Note: Seminal vesicle: dilatation, moderate (TGL 3-7).

- |       |         |           |          |
|-------|---------|-----------|----------|
| Tooth | Incisor | Dysplasia | Moderate |
|-------|---------|-----------|----------|
- [ Dysplasia TGLS = 1-9, 2-9-1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 76	TRT#: 3 DOSE: 0.125%	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: 456 HISTO: 91-57249
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
Tooth	Incisor	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Multiple, Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
		[ Clear Cell Focus TGLS = 2-6, 2-22 ]	
		[ Hyperplasia TGLS = 1-21 ]	
		[ Mixed Cell Focus TGLS = 2-22 ]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Adren Cortex		
Note: One adrenal gland is missing.		
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	Moderate
	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-6 ]	
	[ Hepatocellular Carcinoma TGLS = 3-22 ]	
* Lung	Alveolar/Bronchiolar Adenoma	
	Congestion	Mild
	Hemorrhage	Mild
	Hyperplasia	Histiocytic, Mild
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-2-1 ]	
* Preputial Gland	Inflammation	Chronic, Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-21 ]	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
	Subcapsular	Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-21, 4-23 ]		
	[ Hepatocellular Carcinoma TGLS = 3-22 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Kidney

Subcapsular

- Adenoma
- Cyst
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Hepatocellular Adenoma

- Mild
- Mild
- Multiple, Mild
- Focal, Mild
- Multiple

- \* Liver

[ Clear Cell Focus TGLS = 2-22 ]  
 [ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]

- \* Pituitary Gland
- \* Thyroid Gland
- Tooth

Follicular Cel  
 Incisor

- Cyst
- Hyperplasia
- Dysplasia

- Mild
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59945

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
	[ Eosinophilic Focus TGLS = 4-22 ]		
	[ Hepatocellular Carcinoma TGLS = 4-22 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
* Skin		Alopecia	Mild
	[ Alopecia TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57250

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Seminal Vesicle	Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Hypertrophy	Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 85

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57251

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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	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* 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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**MISSING**

* Gallbladder	* Mammary Gland
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 728 <b>HISTO:</b> 91-60420
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Cytoplasmic Alteration	Focal, Minimal
* Kidney	Nephropathy	Mild
* Liver	Angiectasis	Mild
	Fatty Change	Focal, Mild
	Hepatocellular Adenoma	
	Mixed Cell Focus	Minimal
[ Angiectasis TGLS = 2-22 ]		
[ Hepatocellular Adenoma TGLS = 1-21 ]		
[ Mixed Cell Focus TGLS = 3-23 ]		
* Pituitary Gland	Angiectasis	Moderate
[ Angiectasis TGLS = 4-1 ]		
* Thyroid Gland	Follicular Cel	Mild

PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	Mesentery
* 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

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Multiple, Mild
		Mixed Cell Focus	Mild
	[ Clear Cell Focus TGLS = 4-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ]		
Mesentery			
	Note: Mesentery: cyst, moderate (TGL 2-21).		
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[ Degeneration TGLS = 1-8 ]		
	[ Inflammation TGLS = 1-8 ]		
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | Coagulating Gland           | * Epididymis             |
| * Esophagus                | * Gallbladder             | * 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 |
| * Nose                     | * Parathyroid Gland       | * Pituitary Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach     | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Trachea                  |                           |                             |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- Coagulat GI
  - Note: Coagulating gland: dilatation, moderate (TGL 4-7).
- \* Kidney
  - Nephropathy
- \* Liver
  - Hepatocellular Adenoma
  - Hepatocellular Carcinoma
  - [ Hepatocellular Adenoma TGLS = 6-23 ]
  - [ Hepatocellular Carcinoma TGLS = 2-21 ]
- \* Lung
  - Alveolar Epith
  - Hyperplasia
- \* Pancreas
  - Duct
  - Atrophy
  - Cyst
  - Note: Atrophy affects only acinar tissue--not islets.
  - [ Atrophy TGLS = 5-22 ]
  - [ Cyst TGLS = 5-22 ]
- \* Preputial Gland
  - Degeneration
- [ Degeneration TGLS = 1-8 ]
- \* Sem Ves
  - Note: Seminal vesicle: dilatation, moderate (TGL 3-7-1).
- \* Stomach, Glandular
  - Carcinoid Tumor Benign

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 91-60456
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoid Tumor Benign TGLS = 9-24 ]			
Tooth	Incisor	Dysplasia	Moderate
* Urinary Bladder		Calculus Micro Observation Only	Mild
	Transit Epithe	Hyperplasia	Mild

Note: Part of calculus has been artifactually introduced beneath epithelial layer of bladder.

Note: Calculus apparently is a plug of coagulated seminal fluid which has become adherent to the mucosa; hyperplasia of transit. epith. at contact point.

[ Calculus Micro Observation Only TGLS = 8-8-1 ]

[ Hyperplasia TGLS = 8-8-1 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Hepatocellular Adenoma

Minimal

[ Hepatocellular Adenoma TGLS = 2-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	Moderate
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
	[ Mixed Cell Focus TGLS = 2-6 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
		Necrosis	Focal, Moderate
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]		
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Histiocytic, Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-5 ]		
	[ Hyperplasia TGLS = 3-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hyperplasia TGLS = 5-4-1 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 619

**DOSE:** 0.125%

**DISP:** Moribund Sacrifice

**HISTO:** 91-59946

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Hydronephrosis	Moderate
[ Hydronephrosis TGLS = 4-5, 9-5 ]			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 1-21, 2-22, 3-23 ]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Minimal
		Hyperplasia	Histiocytic, Mild
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1,6-2-1 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 8-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal	
* Liver	Clear Cell Focus	Minimal	
[ Clear Cell Focus TGLS = 3-22 ]			
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild	
* Pituitary Gland	Cyst	Minimal	
* Preputial Gland	Degeneration	Cystic, Mild	
[ Degeneration TGLS = 2-21 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 94	TRT#: 3 DOSE: 0.125%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 91-60423
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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
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-21 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	[ Fatty Change TGLS = 3-22 ]		
	[ Hepatocellular Adenoma TGLS = 3-22.1 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Preputial Gland		Degeneration	Cystic, Mild
	[ Degeneration TGLS = 2-21 ]		
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Coagulat GI			
Note: Coagulating gland: dilatation, mild.			
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Multiple, Mild
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
[ Clear Cell Focus TGLS = 3-22 ]			
[ Hepatocellular Adenoma TGLS = 4-23 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Minimal
[ Degeneration TGLS = 1-21 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7).			
* Thymus		Cyst	Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 97	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60733
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

Coagulat GI Note: Coagulating gland: dilatation, mild.		
* Kidney	Nephropathy	Minimal
* Liver	Eosinophilic Focus	Minimal
	Fatty Change	Focal, Mild
	Mixed Cell Focus	Moderate
Note: TGL 3-22 = NCL [ Mixed Cell Focus TGLS = 2-21 ]		
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ]	Hemorrhage	Minimal
* Preputial Gland Note: Abnormal gland is the one on the right side, not the left side. [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate
* Sem Ves Note: Seminal vesicle: dilatation, moderate.		
* Thymus Note: Thymus has excessive artifact.		
Tooth	Incisor	Dysplasia
		Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60733

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60734
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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
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

Harderian Gland		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
[ Fatty Change TGLS = 2-6, 2-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 654

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59947

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2-1 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 2-5 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thymus		Cyst	Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 4-5 ]		Lymphoma Malignant	
* Preputial Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
* Spleen [ Lymphoma Malignant TGLS = 3-6 ]		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 101

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57252

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Multiple, Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Moderate
	[ Hepatocellular Adenoma TGLS = 4-22 ]		
	[ Mixed Cell Focus TGLS = 2-21 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Moderate
	[ Hemorrhage TGLS = 3-5 ]		
	[ Hyperplasia TGLS = 3-5 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 5-23 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 103

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60459

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Marked
[ Basophilic Focus TGLS = 3-22 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
[ Hemorrhage TGLS = 2-5 ]			
[ Hyperplasia TGLS = 2-5 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Cyst	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 2-22 ]		Adenoma	
* Kidney		Nephropathy	Mild
* Liver [ Hepatocellular Carcinoma TGLS = 1-21 ]		Hepatocellular Carcinoma	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 105	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60736
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex Harderian Gland	Subcapsular	Hyperplasia Adenoma	Focal, Mild
* Kidney	Renal Tubule Renal Tubule	Dilatation Hyperplasia Nephropathy	Focal, Minimal Focal, Minimal Mild
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ] [ Hyperplasia TGLS = 4-5 ]		Hemorrhage Hyperplasia	Mild Lymphoid, Moderate
Mesentery Note: Mesenteric lesion is on slide #21.	Fat	Necrosis	Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Spleen [ Hyperplasia TGLS = 3-6 ]		Hyperplasia	Lymphoid, Moderate
* Testes [ Mineralization TGLS = 2-7 ]	Germinal Epith	Degeneration Mineralization	Mild Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 105

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60736

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
Coagulat GI			
Note: Coagulating gland: dilatation, moderate (TGL 2-7).			
Harderian Gland		Adenoma	
[ Adenoma TGLS = 3-21 ]			
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-22 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 1-7, 1-7-1).			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |   |              |                     |                    |
|---|--------------|---------------------|--------------------|
| * Adrenal Cortex                        |              | Fibrosis            | Moderate           |
| Note: Fibrosis involves capsule, only.  |              |                     |                    |
| * Bone Marrow                           |              | Histiocytic Sarcoma |                    |
| * Intestine Small, Jejunum              | Peyers Patch | Hyperplasia         | Lymphoid, Mild     |
| [ Hyperplasia TGLS = 8-26 ]             |              |                     |                    |
| * Kidney                                |              | Histiocytic Sarcoma |                    |
|   |              | Nephropathy         | Mild               |
| Note: TGL #5 involves serosa of kidney. |              |                     |                    |
| [ Histiocytic Sarcoma TGLS = 5-23 ]     |              |                     |                    |
| * Liver                                 |              | Eosinophilic Focus  | Mild               |
| [ Eosinophilic Focus TGLS = 6-24 ]      |              |                     |                    |
| Lymph Node                              | Inguinal     | Histiocytic Sarcoma |                    |
|   | Mediastinal  | Histiocytic Sarcoma |                    |
|   | Renal        | Histiocytic Sarcoma |                    |
|   | Inguinal     | Hyperplasia         | Lymphoid, Moderate |
| [ Histiocytic Sarcoma TGLS = 10-27 ]    |              |                     |                    |
| [ Histiocytic Sarcoma TGLS = 1-8 ]      |              |                     |                    |
| [ Histiocytic Sarcoma TGLS = 9-3-1 ]    |              |                     |                    |
| [ Hyperplasia TGLS = 1-21 ]             |              |                     |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 107	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 91-60462
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric [ Histiocytic Sarcoma TGLS = 7-25 ] Mesentery		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-22 ]		Histiocytic Sarcoma Inflammation	Chronic, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pancreas		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
* Thymus		Cyst	Mild
Tooth	Incisor	Dysplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60737

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**INSUFFICIENT TISSUE**

\* Parathyroid Gland

**OBSERVATIONS**

Coagulat GI

Note: Coagulating gland: dilatation, moderate (TGL 5-7).

Harderian Gland

\* Kidney

\* Liver

Adenoma

Nephropathy

Eosinophilic Focus

Hepatodiaphragmatic Nodule

Minimal

Minimal

Mild

Note: TGLs #9-23 did not necessarily press against diaphragm.

[ Hepatodiaphragmatic Nodule TGLS = 9-23 ]

\* Lung

Alveolar/Bronchiolar Carcinoma

Hyperplasia

Histiocytic, Moderate

[ Alveolar/Bronchiolar Carcinoma TGLS = 11-2-1 ]

[ Hyperplasia TGLS = 12-2, 12-2-1 ]

Lymph Node

Inguinal

Pigmentation

Minimal

Note: Mediastinal lymph node is missing. (See TGLs #10.)

[ Pigmentation TGLS = 3-21-1 ]

\* Lymph Node, Mesenteric

Hemorrhage

Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 108	<b>TRT#:</b> 3 <b>DOSE:</b> 0.125%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60737
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery [ Necrosis TGLS = 7-22 ]	Fat	Necrosis	Moderate
* Sem Ves Note: Seminal vesicle: dilatation, moderate (TGL 4-7).			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth [ Dysplasia TGLS = 1-9, 2-9-1, 2-24 ]	Incisor	Dysplasia	Marked
Urethra Note: Although urethra shows no tissue abnormalities, it appears to be obstructed by a mucous plug.			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Chronic, Focal, Moderate
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-21 ]		
	[ Inflammation TGLS = 5-2 ]		
Lymph Node	Inguinal	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-8, 1-22 ]		
	[ Hyperplasia TGLS = 4-3-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 2-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 110

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60464

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-21 ]			
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-22 ]			
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pancreas	Duct	Cyst	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8, 3-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 111

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57253

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Parathyroid Gland

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 112

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60738

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 113

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60739

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Intestine Small, Ileum	* Mammary Gland
--------------------------	-----------------

**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

Coagulat GI			
Note: Coagulating gland: dilatation, moderate (TGL 4-23).			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate.			
Tooth	Incisor	Dysplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57254

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Preputial Gland

Degeneration

Cystic, Moderate

[ Degeneration TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Mild
[ Fatty Change TGLS = 5-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Minimal
[ Hematopoietic Cell Proliferation TGLS = 6-5 ]			
[ Hemorrhage TGLS = 6-5 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 4-10 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8, 3-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland
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OBSERVATIONS

* Intestine Small, Jejunum [ Carcinoma TGLS = 2-22 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 5-21 ]		Hepatocellular Adenoma	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ]		Alveolar/Bronchiolar Adenoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen [ Hematopoietic Cell Proliferation TGLS = 4-6 ]		Hematopoietic Cell Proliferation	Moderate
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 118

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57255

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

- \* Pituitary Gland

OBSERVATIONS

- \* Liver

Hemangiosarcoma  
 Hepatocellular Adenoma  
 Mixed Cell Focus

Mild

- [ Hemangiosarcoma TGLS = 3-6 ]
- [ Hepatocellular Adenoma TGLS = 2-21 ]
- [ Mixed Cell Focus TGLS = 4-22 ]

Tooth

Incisor

Dysplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60744

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 121	<b>TRT#:</b> 5 <b>DOSE:</b> 0.25%	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 657 <b>HISTO:</b> 91-59935
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Testes	* Thymus	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thyroid Gland	* Trachea
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**OBSERVATIONS**

* Heart		Histiocytic Sarcoma	
* Kidney		Nephropathy	Mild
* Liver		Histiocytic Sarcoma	
		Necrosis	Focal, Marked
	[ Histiocytic Sarcoma TGLS = 5-6, 6-23, 7-24 ]		
* Lung	Mediastinum	Edema	Mild
	[ Edema TGLS = 8-2 ]		
Lymph Node	Iliac	Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 4-22 ]		
Mesentery		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 3-21 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
Skeletal Muscle		Histiocytic Sarcoma	
	Note: Affected muscle, on Slide #7, is cremaster muscle.		
* Skin	Subcut Tiss	Edema	Mild
	[ Edema TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Moderate
* Stomach, Glandular		Edema	Moderate
		Erosion	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 121

**TRT#:** 5  
**DOSE:** 0.25%

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

**DAY ON TEST:** 657  
**HISTO:** 91-59935

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mineralization

Minimal

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**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 0.25%

DISP: Scheduled Sacrifice

HISTO: 91-57226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Islets, Pancreatic		Cyst	Mild
* Liver		Clear Cell Focus	Mild
[ Clear Cell Focus TGLS = 1-21 ]			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60679

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Thymus	Cyst	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57227

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60680

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-21, 4-22 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[ Degeneration TGLS = 1-8 ]		
	[ Inflammation TGLS = 2-8 ]		
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-60198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Mild
	[ Eosinophilic Focus TGLS = 2-21 ]		
	[ Mixed Cell Focus TGLS = 6-23 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Hyperplasia	Histiocytic, Moderate
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2-1 ]		
Lymph Node	Bronchial	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 5-22 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLS = 3-5 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60681

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
Tooth	Incisor	Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60465

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Mixed Cell Focus	Moderate
	[ Hepatocellular Adenoma TGLS = 2-21 ]	
	[ Mixed Cell Focus TGLS = 3-22 ]	
* Lung	Alveolar/Bronchiolar Carcinoma	
* Lymph Node, Mesenteric	Hemorrhage	Minimal
	[ Hemorrhage TGLS = 4-5 ]	
* Preputial Gland	Degeneration	Cystic, Marked
	[ Degeneration TGLS = 1-8 ]	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	Mild
	Hepatocellular Carcinoma	
	Inflammation	Focal, Mild
[ Basophilic Focus TGLS = 4-6 ]		
[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Moderate
	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-22 ]		
Mesentery	Inflammation	Chronic, Mild
[ Inflammation TGLS = 6-23 ]		
* Preputial Gland	Degeneration	Cystic, Marked
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Jejunum	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular Subcapsular	Adenoma Hyperplasia Nephropathy Clear Cell Focus Hepatocellular Adenoma	Focal, Mild Mild Minimal
* Kidney			
* Liver			
[ Clear Cell Focus TGLS = 4-6 ]			
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7, 2-7-1).			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 654

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-59936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum	Carcinoma Perforation	Mild
[ Carcinoma TGLS = 6-23, 7-24 ]		
* Kidney	Nephropathy	Mild
Note: Although nephropathy is severe, it is confined to a small area of the left kidney.		
[ Nephropathy TGLS = 3-5 ]		
* Liver	Clear Cell Focus Hepatocellular Adenoma	Mild
[ Clear Cell Focus TGLS = 5-22 ]		
[ Hepatocellular Adenoma TGLS = 4-21 ]		
Mesentery	Inflammation	Chronic, Mild
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
Tooth	Incisor Dysplasia	Minimal

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 131

**TRT#:** 5  
**DOSE:** 0.25%

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

**DAY ON TEST:** 654  
**HISTO:** 91-59936

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 0.25%

DISP: Scheduled Sacrifice

HISTO: 91-57228

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver		Fatty Change	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 133	<b>TRT#:</b> 5 <b>DOSE:</b> 0.25%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 91-60402
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 3-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Chronic, Focal, Mild
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 4-5 ]		
* Preputial Gland		Degeneration	Cystic, Mild
	[ Degeneration TGLS = 2-8 ]		
* Sem Ves			
	Note: Seminal vesicle: dilatation, moderate (TGL 5-7, 5-7-1).		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 619

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-59937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 4-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]		
* Preputial Gland		Degeneration	Cystic, Marked
	[ Degeneration TGLS = 1-8, 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57229

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Pancreas	Atrophy	Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Cytoplasmic Alteration	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 2-21, 3-22, 5-23 ]	Hepatocellular Adenoma	Multiple
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 6-5 ]	Hemorrhage	Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 1-21 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 3-5 ]		Hemorrhage	Minimal
* Preputial Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91--60427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 1-21, 2-22 ]		Carcinoma	
* Kidney		Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 5-24 ] [ Hepatocellular Carcinoma TGLS = 4-23, 6-25 ]		Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
Mesentery * Preputial Gland [ Degeneration TGLS = 7-8-1 ]	Artery	Inflammation Degeneration	Chronic, Mild Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach [ Hyperplasia TGLS = 8-26 ]	Epithelium	Erosion Hyperplasia Inflammation	Mild Moderate Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60684

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Prostate  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Testes

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Skin  
\* Thyroid Gland

**MISSING**

\* Mammary Gland

\* Thymus

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney  
\* Preputial Gland  
[ Degeneration TGLS = 1-8-1 ]  
\* Spleen

Subcapsular

Hyperplasia  
Nephropathy  
Degeneration

Focal, Mild  
Mild  
Cystic, Moderate

Hemangioma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57230

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 669

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-60199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                   |  |  |                  |
|-------------------|--|--|------------------|
| * Liver           |  | Hepatocellular Adenoma<br>Hepatocellular Carcinoma |                  |
|                   | [ Hepatocellular Adenoma TGLS = 2-21 ]   |  |                  |
|                   | [ Hepatocellular Carcinoma TGLS = 3-22 ] |  |                  |
| * Nose            | Glands, Mucosa                           | Dilatation   | Focal, Minimal   |
| * Preputial Gland |  | Degeneration                                       | Cystic, Moderate |
|                   | [ Degeneration TGLS = 1-8-1 ]            |  |                  |
| * Spleen          |  | Hematopoietic Cell Proliferation                   | Moderate         |

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57231

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

\* Mammary Gland

**OBSERVATIONS**

* Lung	Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Marked
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-60200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Epididymis		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 5-6, 5-22 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-5 ]			
Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8-1 ]			
* Skin		Alopecia	Mild
[ Alopecia TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 7-27 ]	Adenoma	
* Intestine Small, Jejunum [ Carcinoma TGLS = 6-26 ]	Carcinoma	
* Kidney	Nephropathy	Minimal
* Liver  [ Hepatocellular Adenoma TGLS = 2-22 ] [ Hepatocellular Carcinoma TGLS = 3-23, 4-24, 5-25 ]	Hemangiosarcoma Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Moderate
* Preputial Gland	Degeneration	Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-21 ]	Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                        |                  |
|-------------------|--|------------------------|------------------|
| * Kidney          |  | Nephropathy            | Minimal          |
| * Liver           |  | Hepatocellular Adenoma | Multiple         |
|                   | Oval Cell                                    | Hyperplasia            | Moderate         |
|                   | [ Hepatocellular Adenoma TGLS = 2-21, 3-22 ] |                        |                  |
| * Preputial Gland |  | Degeneration           | Cystic, Moderate |
|                   | [ Degeneration TGLS = 1-8 ]                  |                        |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-22 ]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
[ Hemorrhage TGLS = 3-5 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 710

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-60201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 6-6 ]			
Lymph Node	Iliac	Hemorrhage	Moderate
	Renal	Hemorrhage	Moderate
	Iliac	Histiocytic Sarcoma	
	Mediastinal	Histiocytic Sarcoma	
	Pancreatic	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
[ Hemorrhage TGLS = 9-22 ]			
[ Hemorrhage TGLS = 10-23 ]			
[ Histiocytic Sarcoma TGLS = 5-7 ]			
[ Histiocytic Sarcoma TGLS = 9-22 ]			
[ Histiocytic Sarcoma TGLS = 10-23 ]			
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 7-21 ]			
Mesentery		Histiocytic Sarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 149	<b>TRT#:</b> 5 <b>DOSE:</b> 0.25%	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 710 <b>HISTO:</b> 91-60201
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland [ Inflammation TGLS = 2-8-1 ]		Histiocytic Sarcoma Inflammation	Chronic, Moderate
* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Mild
* Spleen [ Histiocytic Sarcoma TGLS = 4-6-1 ]		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Moderate
* Stomach, Glandular [ Pigmentation TGLS = 8-4 ]		Pigmentation	Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

---

PRIMARY CAUSE OF DEATH                      - Liver    Histiocytic Sarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Coagulat GI Note: Coagulating gland: dilatation, moderate (TGL 3-7, 3-7-1).			
Harderian Gland [ Adenoma TGLS = 1-21 ]	Adenoma		
* Kidney	Nephropathy	Minimal	
* Liver	Clear Cell Focus	Mild	
	Eosinophilic Focus	Multiple, Mild	
[ Eosinophilic Focus TGLS = 4-22 ]			
* Sem Ves Note: Seminal vesicle: dilatation, moderate (TGL 2-7, 2-7-1).			
Tooth [ Dysplasia TGLS = 5-9 ]	Incisor Dysplasia	Moderate	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 409

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-57232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma Necrosis	Mild
	Centrilobular		
	[ Hepatocellular Adenoma TGLS = 2-22 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung		Thrombosis	Multiple, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

Harderian Gland		Adenoma	
* Intestine Small, Jejunum [ Hyperplasia TGLS = 3-21 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Liver [ Clear Cell Focus TGLS = 1-6 ]		Clear Cell Focus	Multiple, Mild
		Eosinophilic Focus	Minimal
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 2-5 ]		Hyperplasia	Lymphoid, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Coagulat GI			
Note: Coagulating gland: dilatation, moderate (TGL 3-7, 3-7-1).			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-21, 5-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 4-7, 4-7-1).			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Cyst	Mild
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-60202

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Adenoma	Multiple
	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2-1 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
	Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8-1 ]		
[ Inflammation TGLS = 2-8-1 ]		

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
[ Mixed Cell Focus TGLS = 2-22 ]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland		Cyst	Minimal
* Prostate		Inflammation	Chronic, Focal, Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 156

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57233

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum		Carcinoma Lymphoma Malignant	
[ Carcinoma TGLS = 4-24 ]			
[ Lymphoma Malignant TGLS = 3-23 ]			
* Kidney		Lymphoma Malignant Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-22 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Inflammation	Chronic, Moderate
Note: Inflammation is localized at site of tumor of jejunum.			
* Preputial Gland		Degeneration	Cystic, Mild
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-21 ]			
[ Lymphoma Malignant TGLS = 1-21 ]			
* Thymus		Lymphoma Malignant	
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 157

**TRT#:** 5  
**DOSE:** 0.25%

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 728  
**HISTO:** 91-60433

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 158

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57234

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Clear Cell Focus Hepatocellular Adenoma	Marked
[ Clear Cell Focus TGLS = 2-22 ]		
[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

\* Adren Cortex

Note: One adrenal gland is missing.

\* Kidney

Nephropathy

Minimal

\* Liver

Fatty Change

Focal, Minimal

Hepatocellular Adenoma

Multiple

[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]

\* Lung

Alveolar/Bronchiolar Adenoma

\* Preputial Gland

Degeneration

Cystic, Minimal

[ Degeneration TGLS = 1-8 ]

\* Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-60686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Pituitary Gland  
\* Skin  
\* Thyroid Gland

\* Blood Vessel  
\* Epididymis  
\* Islets, Pancreatic  
\* Prostate  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Testes

MISSING

\* Mammary Gland

\* Thymus

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Ileum

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

OBSERVATIONS

\* Adrenal Cortex  
\* Kidney  
\* Liver  
\* Lung  
Lymph Node

Iliac  
Inguinal  
Mediastinal  
Pancreatic  
Renal

Lymphoma Malignant  
Nephropathy  
Lymphoma Malignant  
Lymphoma Malignant  
Lymphoma Malignant  
Lymphoma Malignant  
Lymphoma Malignant  
Lymphoma Malignant  
Lymphoma Malignant

Mild

[ Lymphoma Malignant TGLS = 9-24 ]  
[ Lymphoma Malignant TGLS = 10-25 ]  
[ Lymphoma Malignant TGLS = 6-23 ]  
[ Lymphoma Malignant TGLS = 2-22 ]  
[ Lymphoma Malignant TGLS = 11-3-1 ]  
[ Lymphoma Malignant TGLS = 1-8, 1-21 ]  
\* Lymph Node, Mandibular  
[ Lymphoma Malignant TGLS = 3-8 ]

Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 160

**TRT#:** 5  
**DOSE:** 0.25%

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

**DAY ON TEST:** 724  
**HISTO:** 91-60686

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 8-5 ]	Lymphoma Malignant	
Mesentery	Lymphoma Malignant	
* Pancreas	Lymphoma Malignant	
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 4-8-1 ]	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-6-1 ]		

**PRIMARY CAUSE OF DEATH** - Liver Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-59938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 2-21, 3-22 ]		
* Pancreas	Atrophy	Focal, Minimal
* Pituitary Gland	Cyst	Minimal
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 4-23 ]		Lymphoma Malignant	
* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 3-22 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 2-21 ]		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Spleen		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 163	TRT#: 5 DOSE: 0.25%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 91-60687
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Mammary Gland	* Pituitary Gland
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**INSUFFICIENT TISSUE**

\* Thymus

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 3-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Preputial Gland
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OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
[ Adenoma TGLS = 3-3 ]			
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Spleen	Hematopoietic Cell Proliferation Hyperplasia	Minimal Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Clear Cell Focus	Multiple, Mild
	Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 2-22 ]		
[ Hepatocellular Adenoma TGLS = 2-22 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ]		
Mesentery	Fat	Necrosis
[ Necrosis TGLS = 1-21 ]		Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 168

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60691

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Preputial Gland	Degeneration	Cystic, Moderate

[ Degeneration TGLS = 1-8-1 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60692

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Adrenal Cortex                      \* Thymus

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
[ Inflammation TGLS = 1-8-1 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 550

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-59939

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**AUTO PRECLUDES DIAG.**

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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**OBSERVATIONS**

* Adrenal Cortex		Cyst	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
Tooth	Incisor	Dysplasia	Marked

**PRIMARY CAUSE OF DEATH**

- Tooth Incisor Dysplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 520

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-59940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	Multiple
	Necrosis	Focal, Mild
[ Hepatocellular Carcinoma TGLS = 2-6, 3-21, 4-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 172

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57235

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-22 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 174

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
Tooth	Incisor	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	Mild
[ Mixed Cell Focus TGLS = 2-22 ]			
* Preputial Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-21 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 3-4-1 ]			
* Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Adenoma	

[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 5-22 ]		Lymphoma Malignant	
* Kidney		Cyst	Mild
* Liver  [ Hepatocellular Adenoma TGLS = 3-21 ]		Fatty Change Hepatocellular Adenoma	Focal, Minimal
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ]		Hemorrhage	Minimal
* Nose Glands, Mucosa		Dilatation	Focal, Minimal
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Minimal
* Sem Ves Note: Seminal vesicle: dilatation, moderate (TGL 2-7, 2-7-1).			
Tooth Incisor		Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60695

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

\* Adren Cortex

Note: One adrenal gland is missing.

\* Kidney

Nephropathy

Minimal

\* Lung

Alveolar Epith

Hyperplasia

Mild

[ Hyperplasia TGLS = 3-2-1 ]

\* Lymph Node, Mesenteric

Hemorrhage

Moderate

[ Hemorrhage TGLS = 1-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 179

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 4-22 ]		
* Lung		Congestion	Moderate
	Note: Lung congestion probably occurred at time of sacrifice and is therefore an artifact.		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 5-23 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 7-23 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Sem Ves			
Note: Seminal vesicle: dilatation, moderate (TGL 2-7-1).			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 6-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57209

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                           |                |             |         |
|---------------------------|----------------|-------------|---------|
| * Kidney                  |                | Nephropathy | Minimal |
| * Lung                    | Alveolar Epith | Hyperplasia | Mild    |
| * Lymph Node, Mesenteric  |                | Hemorrhage  | Mild    |
| [ Hemorrhage TGLS = 2-5 ] |                |             |         |
| Tooth                     | Incisor        | Dysplasia   | Mild    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 183

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57210

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 4-22 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Dilatation	Focal, Mild
		Nephropathy	Minimal
Lymph Node [ Lymphoma Malignant TGLS = 5-23 ]	Renal	Lymphoma Malignant	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 3-21 ]		Lymphoma Malignant	
* Preputial Gland [ Inflammation TGLS = 1-8 ]		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

\* Mammary Gland

OBSERVATIONS

Ear	External Ear	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-21 ]			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
[ Clear Cell Focus TGLS = 3-22 ]		Mixed Cell Focus	Mild
[ Mixed Cell Focus TGLS = 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 1-21 ]	Lymphoma Malignant	
* Preputial Gland	Inflammation	Chronic, Moderate
* Spleen [ Lymphoma Malignant TGLS = 2-6 ]	Lymphoma Malignant	
Tooth	Incisor Dysplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 187

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 595

**DOSE:** 0.5%

**DISP:** Moribund Sacrifice

**HISTO:** 91-59920

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2, 3-2-1, 4-2-2 ]	Alveolar/Bronchiolar Carcinoma	Multiple
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Hyperplasia Nephropathy	Focal, Minimal Minimal
	Note: Hyperplasia involves Bowman's capsule of a renal corpuscle.		
* Lung		Alveolar/Bronchiolar Carcinoma Hyperplasia	Histiocytic, Marked
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-21 ]		
* Thymus		Cyst	Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60626

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2-1 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]		
* Stomach, Forestomach	Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 3-4-1 ]		
Tooth	Incisor	Dysplasia
		Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 191

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57211

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Lung Alveolar/Bronchiolar Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 192

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60627

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 3-5 ]		Hemorrhage	Minimal
* Preputial Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Mild
Tooth	Incisor	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 630

**DOSE:** 0.5%

**DISP:** Moribund Sacrifice

**HISTO:** 91-59921

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Thymus

**OBSERVATIONS**

* Kidney	Nephropathy	Moderate
[ Nephropathy TGLS = 2-5 ]		
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-22 ]	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 0.5%

DISP: Scheduled Sacrifice

HISTO: 91-57212

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Hepatocellular Carcinoma Mixed Cell Focus	Mild
[ Hepatocellular Carcinoma TGLS = 3-21 ]		
[ Mixed Cell Focus TGLS = 4-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Pituitary Gland
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OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 2-22 ]		
[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Preputial Gland		Degeneration	Cystic, Marked
[ Degeneration TGLS = 2-8-1 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 628

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-59922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Cyst	Mild
		Eosinophilic Focus	Moderate
		Necrosis	Focal, Mild
[ Cyst TGLS = 2-21 ]			
[ Necrosis TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2-1 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Sem Ves			
Note: Seminal vesicle: dilatation, mild (TGL 1-7-1).			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60629

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* 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**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-2-1 ]		
* Preputial Gland		Degeneration	Cystic, Mild
	[ Degeneration TGLS = 2-8 ]		
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60630

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60631

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 2-5 ]			
* Preputial Gland		Degeneration	Cystic, Marked
[ Degeneration TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 201

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57213

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Nose  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

\* Adrenal Cortex

Subcapsular

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 0.5%

DISP: Scheduled Sacrifice

HISTO: 91-57214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 4-23 ]	Lymphoma Malignant	
* Liver	Hematopoietic Cell Proliferation	Minimal
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 3-22 ]	Lymphoma Malignant	
* Skin [ Alopecia TGLS = 1-21 ]	Alopecia	Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]	Hematopoietic Cell Proliferation	Marked
Tooth Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2-1 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-59923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 5-6 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]		Inflammation	Chronic, Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 4-5 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes		Fibrosis	Marked
	Artery	Inflammation	Chronic, Marked
		Thrombosis	Marked
[ Fibrosis TGLS = 2-21 ]			
[ Inflammation TGLS = 2-21 ]			
[ Thrombosis TGLS = 2-21 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 204

**TRT#:** 7  
**DOSE:** 0.5%

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

**DAY ON TEST:** 589  
**HISTO:** 91-59923

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tissue NOS	Pelvic	Inflammation	Chronic, Moderate
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PRIMARY CAUSE OF DEATH	- Tissue NOS Pelvic Inflammation		
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland		Cyst	Moderate
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			
[ Inflammation TGLS = 1-8 ]			
* Seminal Vesicle		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 2-7, 2-7-1 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 208

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Moderate
	Mixed Cell Focus	Mild

[ Angiectasis TGLS = 2-22 ]

[ Mixed Cell Focus TGLS = 1-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 688

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-60194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex [ Hyperplasia TGLS = 3-10 ]	Subcapsular	Hyperplasia	Focal, Mild
Harderian Gland		Adenoma	
* Heart	Artery	Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Marked
* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 4-4-1 ]		Squamous Cell Papilloma	
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH - Tooth Incisor Dysplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60635

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
* Thymus		Cyst	Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Duodenum	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
* Testes		Mineralization	Focal, Mild
[ Mineralization TGLS = 3-21 ]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 2-3 ]		Degeneration	Cystic, Focal, Moderate
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

\* Epididymis

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 4-23 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 5-24 ] [ Hepatocellular Carcinoma TGLS = 2-21 ]		Hepatocellular Adenoma Hepatocellular Carcinoma	
Lymph Node	Mediastinal	Lymphoma Malignant	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 3-22 ]		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 213

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57215

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
		Fatty Change	Focal, Minimal
	[ Clear Cell Focus TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2, 3-2-1, 4-2, 4-2-2 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60638

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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Multiple, Mild
		Eosinophilic Focus	Mild
[ Eosinophilic Focus TGLS = 2-22 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60472

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, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Gallbladder

OBSERVATIONS

* Intestine Small, Ileum [ Hyperplasia TGLS = 5-24 ]	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 3-22,4-23 ] [ Hepatocellular Carcinoma TGLS = 2-21 ]		Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 6-6 ]		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Kidney
- \* Liver

Nephropathy  
 Basophilic Focus  
 Eosinophilic Focus  
 Hepatocellular Adenoma

Mild  
 Moderate  
 Multiple, Mild

[ Basophilic Focus TGLS = 3-22 ]

[ Hepatocellular Adenoma TGLS = 2-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 218

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60639

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* 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**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 219

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57216

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Preputial Gland
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**OBSERVATIONS**

Tooth	Incisor	Dysplasia	Mild
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-7 ]			
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 221

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60641

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Blood Vessel             | * Bone                    | * Bone Marrow               |
| * Brain                  | * Esophagus                | * Gallbladder             | * 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                   | * Pancreas                 | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                   |                                   |          |
|-------------------|-----------------------------------|----------|
| * Adrenal Cortex  | Accessory Adrenal Cortical Nodule | Minimal  |
| * Epididymis      | Spermatocele                      | Moderate |
| * Kidney          | Nephropathy                       | Minimal  |
| * Pituitary Gland | Cyst                              | Mild     |
| * Thymus          | Cyst                              | Minimal  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple, Mild
		[ Hepatocellular Adenoma TGLS = 2-22, 3-23 ]	
		[ Mixed Cell Focus TGLS = 1-21 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Parathyroid Gland		Adenoma	
* Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 223

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 224

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 171

**DOSE:** 0.5%

**DISP:** Moribund Sacrifice

**HISTO:** 90-54560

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Jejunum  
\* Lung  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Islets, Pancreatic  
\* Lymph Node, Mandibular  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Intestine Small, Ileum

\* Mammary Gland

**OBSERVATIONS**

\* Nose

Mucosa

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
-----------------	-------------------

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-21 ]	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Mild
	[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]		
	[ Mixed Cell Focus TGLS = 3-6 ]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 615

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-59924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Marked
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 4-23, 5-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
		Hemorrhage	Mild
* Lymph Node, Mesenteric			
	[ Hemorrhage TGLS = 3-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-21 ]		
Tissue NOS	Pelvic	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
	[ Basophilic Focus TGLS = 5-23 ]		
	[ Hepatocellular Adenoma TGLS = 3-21, 4-22 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8, 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 231

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57217

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-60195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Hydronephrosis Nephropathy	Moderate Marked
	[ Hydronephrosis TGLS = 3-5 ] [ Nephropathy TGLS = 2-5 ]		
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 4-21 ] [ Hepatocellular Carcinoma TGLS = 5-22 ]		
* Lung	Interstitial	Edema	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
	Note: Mesenteric lymph node contains multiple thrombi. [ Hemorrhage TGLS = 6-5 ]		
* Skin	Subcut Tiss	Mineralization	Focal, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60645

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 614

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-59925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Lymph Node, Mandibular  
\* Pituitary Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Nose  
\* Prostate  
\* Spinal Cord  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Islets, Pancreatic  
\* Pancreas  
\* Salivary Glands  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Lung  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Forestomach  
\* Trachea

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Ileum

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum  
\* Stomach, Glandular

\* Intestine Small, Duodenum

OBSERVATIONS

\* Kidney  
\* Liver  
[ Eosinophilic Focus TGLS = 3-21 ]  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
[ Degeneration TGLS = 1-8 ]

Nephropathy  
Eosinophilic Focus  
Hemorrhage  
Degeneration

Minimal  
Mild  
Moderate  
Cystic, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Blood Vessel	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Blood Vessel			
Note: Aorta not examined microscopically.			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple, Moderate
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
	[ Mixed Cell Focus TGLS = 3-6 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
Tooth	Incisor	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart	Artery	Degeneration	Mild
* Kidney	Pelvis	Inflammation	Suppurative, Moderate
		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	Multiple, Mild
		[ Hepatocellular Carcinoma TGLS = 2-21 ]	
		[ Mixed Cell Focus TGLS = 3-22 ]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		[ Hyperplasia TGLS = 5-2-1 ]	
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
		[ Degeneration TGLS = 1-8 ]	
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60646

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
[ Basophilic Focus TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
[ Inflammation TGLS = 1-8-1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60647

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Coagulating Gland		Inflammation	Chronic, Mild
Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth	Incisor	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Liver	Hemangiosarcoma	
	Hepatocellular Carcinoma	
[ Hemangiosarcoma TGLS = 3-22 ]		
[ Hepatocellular Carcinoma TGLS = 3-22 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-21 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Islets, Pancreatic [ Adenoma TGLS = 3-23 ]		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
* Pituitary Gland		Cyst	Minimal
* Preputial Gland [ Degeneration TGLS = 2-22 ]		Degeneration	Cystic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 619

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Atrophy	Focal, Marked
[ Atrophy TGLS = 5-1-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple, Mild
		Fatty Change	Minimal
[ Eosinophilic Focus TGLS = 2-22, 3-24 ]			
* Mammary Gland		Ectasia	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 242

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57199

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

**MISSING**

\* Gallbladder

**OBSERVATIONS**

* Pancreas		Atrophy	Focal, Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Focal, Minimal
[ Inflammation TGLS = 2-22 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Moderate
* Ovary		Cyst	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 245

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60565

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

[ Hydrometra TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 246	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60566

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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Intestine Large, Rectum	* Parathyroid Gland
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**OBSERVATIONS**

* Liver		Basophilic Focus	Moderate
[ Basophilic Focus TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Mammary Gland		Ectasia	Mild
* Ovary		Cyst	Moderate
		Luteoma	
[ Cyst TGLS = 3-7 ]			
[ Luteoma TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[ Angiectasis TGLS = 2-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 248

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 582

**DOSE:** UNTREATDCONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 91-59927

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pituitary Gland	* Skin
* Thyroid Gland	* Trachea		

**MISSING**

* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung	Mediastinum	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-2, 4-3-1 ]			
Lymph Node	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Chronic, Minimal
* Stomach, Glandular		Lymphoma Malignant	
* Thymus			

Note: Lymphomatous tissue obscured thymus.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 248	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 582
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 91-59927

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Lymphoma Malignant	
[ Hyperplasia TGLS = 3-7 ]			

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**PRIMARY CAUSE OF DEATH** - Lung Mediastinum Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 249

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60567

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Ovary

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple, Mild
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 4-22 ]			
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-5 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
		Necrosis	Focal, Moderate
[ Histiocytic Sarcoma TGLS = 7-6, 8-22 ]			
Lymph Node	Iliac	Hemorrhage	Moderate
	Renal	Hemorrhage	Mild
	Iliac	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
[ Hemorrhage TGLS = 10-23 ]			
[ Hemorrhage TGLS = 11-24 ]			
[ Histiocytic Sarcoma TGLS = 11-24 ]			
[ Histiocytic Sarcoma TGLS = 10-23 ]			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 9-5 ]			
* Ovary		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 252	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 673
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 91-60191

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 5-6 ] [ Histiocytic Sarcoma TGLS = 6-21 ] [ Necrosis TGLS = 6-21 ]		Necrosis	Focal, Moderate
* Uterus	Endometrium	Histiocytic Sarcoma Hyperplasia	Cystic, Moderate
[ Histiocytic Sarcoma TGLS = 3-7, 4-7-1 ] [ Hyperplasia TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 253

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57200

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-2-1 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 254	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60569

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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
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 255	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60570

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
Lymph Node		Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 3-7 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 2-7-1 ]			
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
[ Angiectasis TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 5-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 256

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	Marked
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 258

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60573

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple, Mild
[ Eosinophilic Focus TGLS = 3-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hemangiosarcoma	
		Hydrometra	Marked
[ Hemangiosarcoma TGLS = 2-7-1 ]			
[ Hydrometra TGLS = 1-7-1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 260

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57201

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Thymus

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 567

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Brain		Atrophy	Focal, Marked
[ Atrophy TGLS = 7-1-1 ]			
* Intestine Small, Duodenum		Erosion	Mild
		Inflammation	Chronic, Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Fatty Change	Moderate
[ Basophilic Focus TGLS = 4-22 ]			
[ Fatty Change TGLS = 3-21 ]			
* Mammary Gland		Ectasia	Mild
[ Ectasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1-1 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
[ Hyperplasia TGLS = 8-4-1 ]			
[ Inflammation TGLS = 8-4-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 261

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 567

**DOSE:** UNTREATDCONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 91-59928

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Uterus	Endometrium	Adenoma	
		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Mild

[ Adenoma TGLS = 1-21 ]  
[ Hydrometra TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 461

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59181

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

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Liver		Hemangiosarcoma Hepatocellular Carcinoma Necrosis Thrombosis	Marked Moderate
	Centrilobular		
	[ Hemangiosarcoma TGLS = 3-21 ]		
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: Metastatic hepatocytes established diagnosis of hepatoclr carc; avoiding attractive misdiagnosis of vascular tumor in liver (see slides #2 and #21).		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLS = 5-4-1 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 264

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60574

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Ovary		Cyst	Mild
		Cystadenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Hydronephrosis	Moderate
		Nephropathy	Mild
	[ Hydronephrosis TGLS = 5-5 ]		
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
	[ Eosinophilic Focus TGLS = 3-23 ]		
	[ Hepatocellular Carcinoma TGLS = 2-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-21 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 7-24 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 266

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Histiocytic, Focal, Mild
* Liver		Eosinophilic Focus	Minimal
		Inflammation	Focal, Mild
[ Eosinophilic Focus TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Histiocytic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Histiocytic, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 267

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57202

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Marked
		Inflammation	Suppurative, Mild
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 4-7 ]			
[ Inflammation TGLS = 3-7-1 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 268

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 622

**DOSE:** UNTREATDCONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 91-59929

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Fatty Change Hepatocellular Carcinoma	Moderate
[ Fatty Change TGLS = 5-22 ] [ Hepatocellular Carcinoma TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 269

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 617

**DOSE:** UNTREATDCONTROL

**DISP:** Natural Death

**HISTO:** 91-59930

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lung		Congestion	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Minimal
[ Cyst TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 677

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Angiectasis	Moderate
[ Angiectasis TGLS = 3-7 ]			
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 364

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-57203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Fatty Change	Marked
[ Fatty Change TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 3-4-1 ]			
[ Inflammation TGLS = 3-4-1 ]			
[ Ulcer TGLS = 3-4-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 273

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60577

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Ovary		Angiectasis	Moderate
		Cyst	Moderate
[ Angiectasis TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60578

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Inflammation	Focal, Minimal
[ Fatty Change TGLS = 3-22 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 276

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Bone Marrow		Myelofibrosis	Mild
* Ovary		Cyst	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 667

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60193

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLS = 5-21 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Iliac	Hyperplasia	Mild
[ Hyperplasia TGLS = 6-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate
[ Hyperplasia TGLS = 2-7 ]			
[ Inflammation TGLS = 3-7, 4-7-1 ]			

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: UNTREATDCONTROL

DISP: Scheduled Sacrifice

HISTO: 91-57204

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Vacuolization Cytoplasmic	Focal, Mild
[ Vacuolization Cytoplasmic TGLS = 2-21 ]			
* Uterus	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Mild
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Lymph Node, Mesenteric		Amyloid Deposition	Minimal
		Hematopoietic Cell Proliferation	Moderate
		Hemorrhage	Mild
[ Hemorrhage TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate
[ Hyperplasia TGLS = 2-7 ]			
[ Inflammation TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60582

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Brain		Atrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 3-22 ]			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland		Inflammation	Chronic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Eosinophilic Focus	Mild
[ Eosinophilic Focus TGLS = 3-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
* Urinary Bladder		Angiectasis	Moderate
[ Angiectasis TGLS = 2-8 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 283	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57205

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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
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Ovary		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-60584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

OBSERVATIONS

* Liver		Fatty Change Hepatocellular Carcinoma	Focal, Moderate
[ Fatty Change TGLS = 6-25 ]			
[ Hepatocellular Carcinoma TGLS = 5-24 ]			
* Lung		Basal Cell Carcinoma	Metastatic (Skin)
Lymph Node	Iliac	Hyperplasia	Mild
[ Hyperplasia TGLS = 7-26 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-23 ]			
* Ovary		Cyst	Mild
* Skin		Basal Cell Carcinoma	
[ Basal Cell Carcinoma TGLS = 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Stomach, Forestomach		Erosion	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Skin Basal Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 618

DOSE: UNTREATDCONTROL

DISP: Moribund Sacrifice

HISTO: 91-59931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 5-5 ]			
* Liver		Hematopoietic Cell Proliferation	Moderate
		Infiltration Cellular	Mixed Cell, Moderate
* Lung	Interstitialium	Inflammation	Suppurative, Mild
Lymph Node	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Marked
[ Hyperplasia TGLS = 6-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Moderate
Mesentery		Inflammation	Chronic, Marked
[ Inflammation TGLS = 1-21 ]			
* Ovary		Cyst	Moderate
		Inflammation	Suppurative, Marked
[ Cyst TGLS = 3-7 ]			
[ Inflammation TGLS = 1-7-1 ]			
Skeletal Muscle		Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 286

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 618

**DOSE:** UNTREATDCONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 91-59931

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 4-6 ]

\* Uterus

Endometrium

Hyperplasia

Cystic, Marked

Inflammation

Suppurative, Moderate

---

PRIMARY CAUSE OF DEATH

- Ovary Inflammation

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 550

DOSE: UNTREATDCONTROL

DISP: Natural Death

HISTO: 91-59932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Inflammation	Chronic, Mild
* Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Interstitial	Inflammation	Suppurative, Mild
* Ovary		Inflammation	Suppurative, Marked
	[ Inflammation TGLS = 1-7-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 2-7 ]		
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

- Ovary Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60585

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mesenteric	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Stomach, Forestomach		Erosion	Minimal
	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 289

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57206

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 290

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Blood Vessel

**OBSERVATIONS**

\* Blood Vessel

Note: Aorta is missing.

* Kidney		Nephropathy	Mild
* Ovary		Cyst	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 291

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Pituitary Gland		Angiectasis	Mild
[ Angiectasis TGLS = 2-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: UNTREATDCONTROL

DISP: Scheduled Sacrifice

HISTO: 91-57207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Minimal
[ Cyst TGLS = 2-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 293	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> UNTREATDCONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Hyperplasia Nephropathy	Lymphoid, Mild Minimal
* Liver		Hepatocellular Adenoma Infarct	Mild
[ Hepatocellular Adenoma TGLS = 6-24 ]			
[ Infarct TGLS = 9-25 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 8-2 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-23 ]			
[ Hyperplasia TGLS = 7-3-1 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-22 ]			
* Ovary		Hemorrhage	Mild
[ Hemorrhage TGLS = 1-7 ]			
* Pancreas	Duct	Cyst	Moderate
[ Cyst TGLS = 2-21 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 293

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60588

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 294

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Hepatocellular Adenoma	
	[ Angiectasis TGLS = 5-22 ]		
	[ Hepatocellular Adenoma TGLS = 3-21 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 1-7 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 6-23 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Uterus	Endometrium	Carcinoma	
	Endometrium	Hyperplasia	Cystic, Marked
[ Carcinoma TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: UNTREATDCONTROL

DISP: Terminal Sacrifice

HISTO: 91-60504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
[ Hydrometra TGLS = 4-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: UNTREATDCONTROL

DISP: Natural Death

HISTO: 91-60590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 3-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 298

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 299

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** UNTREATDCONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57208

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Ovary		Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 300

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** UNTREATDCONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 91-60505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Erosion	Minimal
	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lym Node Mand			
Note: Mandibular lymph node is on slide #2-1.			
Mesentery	Fat	Necrosis	Minimal
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 1-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60745

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Minimal
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary [ Cyst TGLS = 2-7 ]		Cyst	Marked
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-21 ]			
* Lung		Histiocytic Sarcoma	
Lymph Node	Inguinal	Histiocytic Sarcoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Histiocytic Sarcoma	
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Cystic, Moderate
[ Histiocytic Sarcoma TGLS = 3-22 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 562

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Parathyroid Gland		Cyst	Moderate
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-21, 4-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57256

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone			
Note: Epiphysis and epiphyseal cartilage are missing from the section of femur.			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57257

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia Inflammation	Cystic, Moderate Suppurative, Mild
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[ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	Multiple, Mild
[ Eosinophilic Focus TGLS = 5-23 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-22 ]			
* Ovary		Cyst	Mild
[ Cyst TGLS = 2-7 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60747

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Multiple, Moderate
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 3-22,4-23 ]			
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-60206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Intestine Large, Cecum	* Ovary
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OBSERVATIONS

* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Liver		Fatty Change	Moderate
		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 1-8 ]	
		[ Lymphoma Malignant TGLS = 9-3-1 ]	
		[ Lymphoma Malignant TGLS = 4-21 ]	
* Lymph Node, Mandibular		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 2-7-1 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 6-5 ]	
Mesentery		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 5-22, 7-23, 10-24, 11-7, 12-7, 13-7 ]	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 3-6 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 310	<b>TRT#:</b> 4 <b>DOSE:</b> 0.125%	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 697 <b>HISTO:</b> 91-60206
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus [ Lymphoma Malignant TGLS = 8-2 ]		Lymphoma Malignant	
Tooth	Incisor	Dysplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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**PRIMARY CAUSE OF DEATH** - Liver Lymphoma Malignant

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Animal Note: One adrenal gland is missing.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: t-Butylhydroquinone  
 CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
 Time Report Requested: 03:34:16  
 First Dose M/F: NA / NA  
 Lab: SRI

**ANIMAL ID:** 311      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 734  
**DOSE:** 0.125%      **DISP:** Terminal Sacrifice      **HISTO:** 91-60483

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Atrophy	Focal, Moderate
[ Atrophy TGLS = 7-1-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 6-22 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 1-8 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 4-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 8-1-1 ]			
* Spleen		Congestion	Moderate
[ Congestion TGLS = 5-21 ]		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 5-21 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 311	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 0.125%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60483

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Parathyroid Gland		Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 313	<b>TRT#:</b> 4 <b>DOSE:</b> 0.125%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> 91-60506
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**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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Gallbladder		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	Multiple, Moderate
		Hepatocellular Adenoma	
		Lymphoma Malignant	
[ Eosinophilic Focus TGLS = 4-22 ]			
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Pancreatic	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Intermed	Hyperplasia	Focal, Mild
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Cyst	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Cyst TGLS = 3-7-1 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60748

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Brain [ Atrophy TGLS = 3-1, 3-1-1 ]		Atrophy	Focal, Mild
* Liver [ Hepatocellular Adenoma TGLS = 4-21 ]		Hepatocellular Adenoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland [ Adenoma TGLS = 2-1 ]	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 706

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-60207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

\* Ovary

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Liver [ Hepatocellular Adenoma TGLS = 4-22 ]		Hepatocellular Adenoma Lymphoma Malignant	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]		Alveolar/Bronchiolar Adenoma Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric Mesentery		Lymphoma Malignant Lymphoma Malignant	
[ Necrosis TGLS = 3-21 ]	Fat	Necrosis	Moderate
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
Tooth	Incisor	Dysplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 315	<b>TRT#:</b> 4 <b>DOSE:</b> 0.125%	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 706 <b>HISTO:</b> 91-60207
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus	Endometrium	Hyperplasia Lymphoma Malignant	Cystic, Moderate
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[ Hyperplasia TGLS = 5-7 ]  
[ Lymphoma Malignant TGLS = 5-7 ]

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**PRIMARY CAUSE OF DEATH** - Liver Lymphoma Malignant

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Animal Note: One adrenal gland is missing.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60749

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple, Moderate
		Hepatocellular Adenoma	Multiple
[ Eosinophilic Focus TGLS = 4-23 ]			
[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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Animal Note: Small amount of Harderian gland tissue on slide #1 is believed to be foreign tissue from another animal.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 598

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59949

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Brain		Atrophy	Focal, Marked
[ Atrophy TGLS = 2-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]			
* Mammary Gland		Ectasia	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[ Carcinoma TGLS = 3-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 319	TRT#: 4 DOSE: 0.125%	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: 457 HISTO: 91-57259
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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Liver		Mixed Cell Focus	Mild
[ Mixed Cell Focus TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**INSUFFICIENT TISSUE**

\* Thyroid Gland

**OBSERVATIONS**

* Liver		Eosinophilic Focus Lymphoma Malignant	Minimal
[ Lymphoma Malignant TGLS = 5-22, 6-23 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-8 ]			
* Lymph Node, Mesenteric		Hemorrhage Lymphoma Malignant	Moderate
[ Hemorrhage TGLS = 4-5 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: t-Butylhydroquinone  
 CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
 Time Report Requested: 03:34:16  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 321                      TRT#: 4                      SEX: Female                      DAY ON TEST: 736  
 DOSE: 0.125%                      DISP: Terminal Sacrifice                      HISTO: 91-60751

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Angiectasis	Mild
[ Angiectasis TGLS = 3-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hemangioma	
		Hepatocellular Carcinoma	
	[ Hemangioma TGLS = 3-22 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 323

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60752

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 725

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-60753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mesenteric	* Pituitary Gland
------------------	-------------------	--------------------------	-------------------

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Lymphoma Malignant Mixed Cell Focus	Moderate
	[ Hepatocellular Carcinoma TGLS = 4-21 ] [ Mixed Cell Focus TGLS = 8-24 ]		
* Lung	Mediastinum	Lymphoma Malignant Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 6-23 ]		
Lymph Node	Mediastinal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-3-1 ]		
Mesentery		Hemorrhage Lymphoma Malignant	Moderate
	[ Lymphoma Malignant TGLS = 5-22, 9-25 ]		
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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  | * Mammary Gland             | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |                            |                |             |                  |
|----------------------------|----------------|-------------|------------------|
| * Nose                     | Glands, Mucosa | Dilatation  | Focal, Mild      |
| * Ovary                    | Interstit Cell | Hyperplasia | Moderate         |
| [ Hyperplasia TGLS = 3-7 ] |                |             |                  |
| * Thyroid Gland            | Follicular Cel | Hyperplasia | Minimal          |
| * Uterus                   | Endometrium    | Hydrometra  | Moderate         |
| [ Hydrometra TGLS = 2-7 ]  |                | Hyperplasia | Cystic, Moderate |
| [ Hyperplasia TGLS = 1-7 ] |                |             |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Eosinophilic Focus Hepatocellular Adenoma	Minimal
[ Eosinophilic Focus TGLS = 2-22 ] [ Hepatocellular Adenoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Uterus		Hydrometra	Moderate
[ Hydrometra TGLS = 3-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

**OBSERVATIONS**

\* Uterus  
[ Hyperplasia TGLS = 1-7 ]

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |  |                |                        |                  |
|--|----------------|------------------------|------------------|
| * Kidney                               |                | Lymphoma Malignant     |                  |
| * Liver                                |                | Hepatocellular Adenoma |                  |
|  |                | Lymphoma Malignant     |                  |
|  |                | Mixed Cell Focus       | Marked           |
| [ Hepatocellular Adenoma TGLS = 3-23 ] |                |                        |                  |
| [ Mixed Cell Focus TGLS = 2-22 ]       |                |                        |                  |
| Lymph Node                             | Mediastinal    | Lymphoma Malignant     |                  |
|  | Pancreatic     | Lymphoma Malignant     |                  |
| [ Lymphoma Malignant TGLS = 5-3-1 ]    |                |                        |                  |
| * Lymph Node, Mandibular               |                | Lymphoma Malignant     |                  |
| * Lymph Node, Mesenteric               |                | Lymphoma Malignant     |                  |
| Mesentery                              |                | Lymphoma Malignant     |                  |
| * Nose                                 | Glands, Mucosa | Dilatation             | Focal, Minimal   |
| * Ovary                                |                | Cyst                   | Mild             |
| [ Cyst TGLS = 4-7 ]                    |                |                        |                  |
| * Spleen                               |                | Lymphoma Malignant     |                  |
| [ Lymphoma Malignant TGLS = 1-21 ]     |                |                        |                  |
| * Thyroid Gland                        | Follicular Cel | Hyperplasia            | Minimal          |
| * Uterus                               |                | Hydrometra             | Moderate         |
|  | Endometrium    | Hyperplasia            | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: t-Butylhydroquinone  
 CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
 Time Report Requested: 03:34:16  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 329	TRT#: 4 DOSE: 0.125%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 623 HISTO: 91-59950
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Inflammation	Focal, Minimal
[ Eosinophilic Focus TGLS = 3-22 ]			
* Pancreas		Atrophy	Focal, Minimal
* Parathyroid GI			
Note: See accessory parathyroid gland embedded in thymus, slide #2.			
* Salivary Glands		Sarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 399

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-57261

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
Lymph Node	Mediastinal	Inflammation	Granulomatous, Mild
* Ovary		Cyst	Mild
[ Cyst TGLS = 3-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

Animal Note: SCIATIC NERVE EXAMINED; NORMAL.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 668

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-60208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * 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   | * Mammary Gland           | * Nose                      |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |   |             |                                   |                  |
|---|-------------|-----------------------------------|------------------|
| * Adrenal Cortex                        |             | Accessory Adrenal Cortical Nodule | Minimal          |
| * Kidney                                |             | Nephropathy                       | Minimal          |
| Lymph Node                              | Mediastinal | Lymphoma Malignant                |                  |
|   | Pancreatic  | Lymphoma Malignant                |                  |
| [ Lymphoma Malignant TGLS = 3-7-1 ]     |             |                                   |                  |
| [ Lymphoma Malignant TGLS = 5-3-1 ]     |             |                                   |                  |
| * Lymph Node, Mesenteric                |             | Lymphoma Malignant Mixed          |                  |
| [ Lymphoma Malignant Mixed TGLS = 4-5 ] |             |                                   |                  |
| Mesentery                               |             | Lymphoma Malignant                |                  |
| * Ovary                                 |             | Lymphoma Malignant                |                  |
| * Pancreas                              |             | Lymphoma Malignant                |                  |
| * Spleen                                |             | Lymphoma Malignant                |                  |
| * Thymus                                |             | Lymphoma Malignant                |                  |
| * Uterus                                | Endometrium | Hyperplasia                       | Cystic, Moderate |
|   |             | Lymphoma Malignant                |                  |
| [ Hyperplasia TGLS = 2-7 ]              |             |                                   |                  |

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 332	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> 0.125%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60508

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	Tissue NOS
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 5-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 3-22+23 ]			
[ Hepatocellular Adenoma TGLS = 4-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60755

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
[ Basophilic Focus TGLS = 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pancreas		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 5-9 ]		Carcinoma	
* Kidney		Hyperplasia	Lymphoid, Mild
* Liver [ Hepatocellular Carcinoma TGLS = 2-21 ]		Hepatocellular Carcinoma	
* Lung		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary [ Cyst TGLS = 3-7 ]		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Skin [ Sarcoma TGLS = 4-22 ]	Subcut Tiss	Sarcoma	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 623

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-59951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: Deformity of the left lateral lobe reported at necropsy (TGL #4) apparently was due to compression and distortion of that lobe by the tumor (TGL #5). [ Hepatocellular Carcinoma TGLS = 5-22 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ] [ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Spleen [ Fibrosis TGLS = 2-21 ]		Fibrosis	Focal, Moderate
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60485

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 339

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60756

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	Marked
[ Mixed Cell Focus TGLS = 1-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 340	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 0.125%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60757

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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
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

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**MISSING**

* Pituitary Gland	* Urinary Bladder
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 494

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-59182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Blood Vessel			
Note: Aorta is on slide #5.			
* Kidney		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Lung	Mediastinum	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
Note: Metastases of sq. cell carcinoma in lung and mediastinum are multiple. [ Squamous Cell Carcinoma TGLS = 6-22 ]			
Mesentery		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
Note: There are multiple metastases of squamous cell carcinoma on serous surfaces in abdominal cavity. [ Squamous Cell Carcinoma TGLS = 1-21, 3-7, 5-5 ]			
* Nose	Nasolacrim Dct	Cyst	Minimal
		Inflammation	Suppurative, Minimal
Note: Cyst is an epithelial inclusion cyst.			
* Stomach, Forestomach		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 2-4-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH - Stomach, Forestomach Squamous Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60523

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 4-21, 5-22 ]		Hepatocellular Adenoma	Multiple
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary [ Angiectasis TGLS = 3-7 ]		Angiectasis	Mild
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 344	TRT#: 4 DOSE: 0.125%	SEX: Female DISP: Natural Death	DAY ON TEST: 469 HISTO: 91-59183
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Liver [ Hepatocellular Carcinoma TGLS = 4-21 ]		Hepatocellular Carcinoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Moderate
* Uterus Endometrium		Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 710

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-60209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |  |               |                                  |                |
|--|---------------|----------------------------------|----------------|
| * Liver                                |               | Hepatocellular Adenoma           |                |
| [ Hepatocellular Adenoma TGLS = 5-23 ] |               |                                  |                |
| Mesentery                              | Fat           | Necrosis                         | Mild           |
| [ Necrosis TGLS = 4-22 ]               |               |                                  |                |
| * Pituitary Gland                      | Pars Distalis | Hyperplasia                      | Focal, Minimal |
| * Salivary Glands                      |               | Sarcoma                          |                |
| [ Sarcoma TGLS = 1-21 ]                |               |                                  |                |
| * Spleen                               |               | Hematopoietic Cell Proliferation | Mild           |
| * Uterus                               | Endometrium   | Hyperplasia                      | Cystic, Marked |
| [ Hyperplasia TGLS = 2-7, 3-7 ]        |               |                                  |                |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.125%

DISP: Moribund Sacrifice

HISTO: 91-60758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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       | Peripheral Nerve            | * Salivary Glands        | * Skin                     |
| Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |          |  |                                  |                  |
|----------|--|----------------------------------|------------------|
| * Kidney |  | Nephropathy                      | Minimal          |
| * Liver  |  | Eosinophilic Focus               | Minimal          |
|          |  | Hepatocellular Adenoma           | Multiple         |
|          | [ Hepatocellular Adenoma TGLS = 3-21, 4-22 ] |                                  |                  |
| * Spleen |  | Hematopoietic Cell Proliferation | Mild             |
| * Uterus | Endometrium                                  | Hyperplasia                      | Cystic, Moderate |
|          | [ Hyperplasia TGLS = 2-7 ]                   |                                  |                  |

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60759

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
[ Eosinophilic Focus TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 0.125%

DISP: Scheduled Sacrifice

HISTO: 91-57263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Uterus	Endometrium	Hyperplasia Inflammation	Cystic, Moderate Suppurative, Minimal
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[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-22, 4-23 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Mild
Note: Focal inflammation is adjacent to salivary gland.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 654

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-59952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney [ Congestion TGLS = 6-5 ]		Congestion	Mild
* Ovary [ Cystadenoma TGLS = 4-7-1 ]		Cystadenoma	
* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Mild
* Uterus [ Hydrometra TGLS = 5-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Ovary Cystadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60761

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mesenteric	* Ovary
--------------------------	---------

**OBSERVATIONS**

\* Islets Panc

Note: Accessory pancreatic islets are in mesenteric fat near pancreas.

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 352

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.125%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60762

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Liver		Eosinophilic Focus	Moderate
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 353

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 365

**DOSE:** 0.125%

**DISP:** Moribund Sacrifice

**HISTO:** 91-57264

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 503

DOSE: 0.125%

DISP: Natural Death

HISTO: 91-59184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hematopoietic Cell Proliferation	Moderate
Lymph Node	Renal	Hyperplasia	Marked
[ Hyperplasia TGLS = 7-22 ]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-5 ]			
* Ovary		Cyst	Moderate
		Inflammation	Suppurative, Marked
[ Cyst TGLS = 2-7 ]			
[ Inflammation TGLS = 3-7 ]			
Skeletal Muscle		Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 5-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Ovary Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Gallbladder

OBSERVATIONS

* Brain		Atrophy	Focal, Moderate
[ Atrophy TGLS = 5-1-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-21, 4-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Hyperplasia	Histiocytic, Focal, Mild

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 357

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.125%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hemorrhage	Marked
		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hemorrhage TGLS = 2-7 ]			
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 0.125%

DISP: Terminal Sacrifice

HISTO: 91-60766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- |  |             |                        |                |
|--|-------------|------------------------|----------------|
| * Kidney                               |             | Nephropathy            | Mild           |
| * Liver                                |             | Eosinophilic Focus     | Mild           |
|  |             | Hepatocellular Adenoma |                |
| [ Hepatocellular Adenoma TGLS = 3-21 ] |             |                        |                |
| * Spleen                               |             | Hyperplasia            | Lymphoid, Mild |
| * Uterus                               | Endometrium | Hyperplasia            | Cystic, Marked |
| [ Hyperplasia TGLS = 2-7 ]             |             |                        |                |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 4

DOSE: 0.125%

SEX: Female

DISP: Natural Death

DAY ON TEST: 612

HISTO: 91-59953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Congestion	Mild
		Nephropathy	Mild
[ Congestion TGLS = 6-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Focal, Mild
[ Necrosis TGLS = 7-21 ]			
Lymph Node	Iliac	Hyperplasia	Moderate
	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Marked
[ Hyperplasia TGLS = 10-23 ]			
[ Hyperplasia TGLS = 9-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Moderate
Mesentery		Inflammation	Chronic, Moderate
* Ovary		Inflammation	Suppurative, Marked
[ Inflammation TGLS = 1-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Stomach, Glandular		Erosion	Mild
		Pigmentation	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 360

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 612

**DOSE:** 0.125%

**DISP:** Natural Death

**HISTO:** 91-59953

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Pigmentation TGLS = 8-4 ]

\* Thyroid Gland

Follicular Cel

Adenoma

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

---

[ Hyperplasia TGLS = 3-7 ]

PRIMARY CAUSE OF DEATH

- Ovary Inflammation

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Polyp Stromal TGLS = 2-22 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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 | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |  |                |                        |                  |
|--|----------------|------------------------|------------------|
| * Kidney                               |                | Nephropathy            | Mild             |
| * Liver                                |                | Eosinophilic Focus     | Mild             |
|  |                | Hepatocellular Adenoma |                  |
| [ Hepatocellular Adenoma TGLS = 2-22 ] |                |                        |                  |
| * Lymph Node, Mesenteric               |                | Lymphoma Malignant     |                  |
| [ Lymphoma Malignant TGLS = 1-21 ]     |                |                        |                  |
| * Thyroid Gland                        | Follicular Cel | Hyperplasia            | Mild             |
| * Uterus                               | Endometrium    | Hyperplasia            | Cystic, Moderate |
| [ Hyperplasia TGLS = 3-7 ]             |                |                        |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60696

**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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Gallbladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth	Incisor	Dysplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 0.25%

DISP: Scheduled Sacrifice

HISTO: 91-57236

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla

\* Blood Vessel

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Gallbladder

\* 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, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

**OBSERVATIONS**

\* Adrenal Cortex

Accessory Adrenal Cortical Nodule

Minimal

\* Kidney

Renal Tubule

Dilatation

Focal, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 365	TRT#: 6 DOSE: 0.25%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 91-60697
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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Fatty Change	Focal, Mild
	[ Fatty Change TGLS = 1-6-1 ]		
* Pituitary Gland		Angiectasis	Minimal
	[ Angiectasis TGLS = 2-1 ]		
* Skin		Inflammation	Chronic, Focal, Mild
	[ Inflammation TGLS = 3-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 366	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0.25%	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 91-57237

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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
* Gallbladder	* 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	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Skin		Alopecia	Focal, Mild
[ Alopecia TGLS = 1-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 367	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 734 <b>HISTO:</b> 91-60698
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

**OBSERVATIONS**

* Intestine Small, Ileum [ Hyperplasia TGLS = 5-22 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Intestine Small, Jejunum [ Hyperplasia TGLS = 5-22 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney	Renal Tubule	Dilatation Nephropathy Eosinophilic Focus	Focal, Minimal Minimal Multiple, Moderate
* Liver [ Eosinophilic Focus TGLS = 3-21 ]		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland [ Adenoma TGLS = 4-1 ]	Pars Distalis	Adenoma	
* Spleen [ Hyperplasia TGLS = 1-6 ]		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus [ Hydrometra TGLS = 2-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 368

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

**MISSING**

\* Urinary Bladder

**OBSERVATIONS**

* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
Note: TGL 4-24 = NCL			
[ Hepatocellular Adenoma TGLS = 3-23 ]			
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
Note: TGL #2 involves axillary lymph node.			
[ Lymphoma Malignant TGLS = 2-22 ]			
[ Lymphoma Malignant TGLS = 8-3-1 ]			
[ Lymphoma Malignant TGLS = 7-27 ]			
[ Lymphoma Malignant TGLS = 6-26 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-25 ]			
* Pancreas		Atrophy	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 368	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 734 <b>HISTO:</b> 91-60488
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Mild
[ Hematopoietic Cell Proliferation TGLS = 10-6 ] [ Lymphoma Malignant TGLS = 10-6 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 9-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Ovary	* Thymus
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OBSERVATIONS

* Intestine Large, Cecum		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-22, 4-23, 6-24 ]			
Lymph Node	Pancreatic	Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
		Lymphoma Malignant	
[ Hydrometra TGLS = 1-7 ]			
[ Lymphoma Malignant TGLS = 5-7-2 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60699

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

OBSERVATIONS

* Gallbladder		Cyst	Mild
* Kidney		Nephropathy	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
Tooth	Incisor	Dysplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 0.25%

DISP: Scheduled Sacrifice

HISTO: 91-57238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Ovary	Cyst	Minimal
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[ Cyst TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 372	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 734 <b>HISTO:</b> 91-60490
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Heart	Artery	Inflammation	Chronic, Minimal
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant	
[ Hepatocellular Carcinoma TGLS = 3-23 ]			
[ Lymphoma Malignant TGLS = 2-22 ]			
Lymph Node	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-24 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pancreas		Atrophy	Focal, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-21 ]			
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 373

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57239

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Mixed Cell Focus	Moderate
[ Mixed Cell Focus TGLS = 2-21 ]			
* Uterus	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 5-24 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
* Liver [ Hepatocellular Carcinoma TGLS = 4-23 ]		Hepatocellular Carcinoma	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 7-5 ]		Lymphoma Malignant	
* Ovary [ Cystadenoma TGLS = 3-22 ]		Cystadenoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-21 ]		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60701

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
[ Clear Cell Focus TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Polyp Stromal TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 379	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> 91-60703
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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
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60491

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
[ Eosinophilic Focus TGLS = 2-22 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 381

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57240

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 382

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60704

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 456

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-57241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Pituitary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Stomach, Glandular		

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Marked
Lymph Node	Inguinal	Hyperplasia	Moderate
	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-2-1, 6-8, 4-21 ]			
[ Hyperplasia TGLS = 5-2-1, 6-8, 4-21 ]			
[ Hyperplasia TGLS = 5-2-1, 6-8, 4-21 ]			
Mesentery		Inflammation	Chronic, Moderate
* Ovary		Inflammation	Suppurative, Marked
[ Inflammation TGLS = 2-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 724

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-60705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[ Pheochromocytoma Malignant TGLS = 2-21 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Centrilobular	Necrosis	Moderate
[ Hepatocellular Adenoma TGLS = 4-22 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Vacuolization Cytoplasmic	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hydrometra	Mild
		Hyperplasia	Cystic, Mild
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Harderian Gland		Adenoma	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60525

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Liver [ Hepatocellular Adenoma TGLS = 3-21 ]		Hepatocellular Adenoma	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary		Cystadenoma	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Adenoma	
	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Mild
[ Adenoma TGLS = 4-22 ]			
[ Hydrometra TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 0.25%

DISP: Scheduled Sacrifice

HISTO: 91-57242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 618

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-59941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |   |             |   |        |
|---|-------------|---|--------|
| * Kidney  |             | Histiocytic Sarcoma<br>Nephropathy                      | Mild   |
| [ Histiocytic Sarcoma TGLS = 14-5-1, 15-5, 15-5-1 ] |             |   |        |
| * Liver   |             | Histiocytic Sarcoma                                     |        |
| [ Histiocytic Sarcoma TGLS = 12-24, 13-6 ]          |             |   |        |
| * Lung  |             | Histiocytic Sarcoma                                     |        |
| Lymph Node  | Iliac       | Histiocytic Sarcoma                                     |        |
|   | Mediastinal | Histiocytic Sarcoma                                     |        |
|   | Renal       | Histiocytic Sarcoma                                     |        |
| [ Histiocytic Sarcoma TGLS = 17-3-1 ]               |             |   |        |
| [ Histiocytic Sarcoma TGLS = 11-22 ]                |             |   |        |
| [ Histiocytic Sarcoma TGLS = 16-23 ]                |             |   |        |
| * Lymph Node, Mesenteric                            |             | Hematopoietic Cell Proliferation<br>Histiocytic Sarcoma | Marked |
| [ Hematopoietic Cell Proliferation TGLS = 10-6 ]    |             |   |        |
| Mesentery   |             | Histiocytic Sarcoma                                     |        |
| * Ovary   |             | Histiocytic Sarcoma                                     |        |
| [ Histiocytic Sarcoma TGLS = 8-7, 9-7 ]             |             |   |        |
| * Spleen  |             | Hematopoietic Cell Proliferation                        | Marked |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 389

**TRT#:** 6

**DOSE:** 0.25%

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 618

**HISTO:** 91-59941

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 10-6 ]

\* Urinary Bladder

\* Uterus

Histiocytic Sarcoma

Histiocytic Sarcoma

Hydrometra

Mild

Endometrium

Hyperplasia

Cystic, Mild

[ Histiocytic Sarcoma TGLS = 6-21, 7-7-1 ]

[ Hydrometra TGLS = 3-7, 5-7 ]

[ Hyperplasia TGLS = 4-7 ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 718

DOSE: 0.25%

DISP: Natural Death

HISTO: 91-60707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Ovary

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-24 ]			
[ Lymphoma Malignant TGLS = 6-23 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Saliv Glands			
Note: Salivary glands are on slide #21.			
* Spleen		Hemorrhage	Moderate
		Lymphoma Malignant	
[ Hemorrhage TGLS = 4-22 ]			
[ Lymphoma Malignant TGLS = 3-6 ]			
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-23 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 390

**TRT#:** 6  
**DOSE:** 0.25%

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

**DAY ON TEST:** 718  
**HISTO:** 91-60707

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	- Liver Lymphoma Malignant		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 391

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57243

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 288

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 90-55441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder

MISSING

\* Esophagus

OBSERVATIONS

* Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
* Brain	Artery, Meninges	Inflammation	Chronic, Mild
* Heart	Artery	Inflammation	Chronic, Mild
* Intestine Small, Jejunum [ Perforation TGLS = 3-21 ]		Perforation	Chronic, Moderate
* Kidney	Artery	Inflammation	Chronic, Moderate
* Lung Lymph Node [ Hyperplasia TGLS = 5-23 ]	Mediastinum, Pleura Mediastinal	Inflammation Hyperplasia	Chronic, Mild Moderate
Mesentery [ Inflammation TGLS = 2-5 ]		Inflammation	Chronic, Moderate
Skeletal Muscle [ Inflammation TGLS = 4-22 ]		Inflammation	Suppurative, Moderate
* Thyroid Gland		Inflammation	Mild
* Trachea	Artery, Peritrach Tiss	Inflammation	Chronic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- Mesentery Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Eye [ Inflammation TGLS = 1-21 ]	Cornea	Inflammation	Chronic, Moderate
Harderian Gland [ Adenoma TGLS = 2-22 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 4-23 ]		Eosinophilic Focus Hepatocellular Adenoma	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Uterus [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Focal, Minimal
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ]		Hemorrhage	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus [ Hydrometra TGLS = 3-7 ] [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:16  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 396

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60710

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
* Ovary		Cyst	Mild
* Pituitary Gland		Cyst	Mild
[ Cyst TGLS = 2-1 ]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 2-21 ]		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	
* Lung		Hemorrhage	Mild
* Mammary Gland [ Myoepithelioma TGLS = 3-22 ]		Myoepithelioma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth	Incisor	Dysplasia	Minimal
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60713

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Moderate
		Mixed Cell Focus	Mild
[ Cyst TGLS = 4-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Histiocytic Sarcoma	
		Hyperplasia	Cystic, Moderate
[ Histiocytic Sarcoma TGLS = 1-7, 2-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-60714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
		Mixed Cell Focus	Multiple, Marked
[ Hepatocellular Adenoma TGLS = 8-26 ]			
Lymph Node	Inguinal	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-24 ]			
* Skin	Subcut Tiss	Histiocytic Sarcoma	
		Ulcer	Moderate
[ Histiocytic Sarcoma TGLS = 1-21 ]			
[ Ulcer TGLS = 2-22, 3-23 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 7-6 ]			
Tissue NOS	Pelvic	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 6-25, 9-27 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 401	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> 91-60715
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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
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**OBSERVATIONS**

* Liver		Inflammation	Focal, Minimal
* Ovary		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 402	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 651 <b>HISTO:</b> 91-59942
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**AUTO PRECLUDES DIAG.**

* Adrenal Cortex	* Gallbladder	* 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
* Ovary	* Pancreas	* Spleen	* Stomach, Glandular
* Thymus	* Uterus		

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**OBSERVATIONS**

* Liver [ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		Hepatocellular Carcinoma	Multiple
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Glands, Mucosa	Dilatation	Focal, Mild

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**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 403	<b>TRT#:</b> 6 <b>DOSE:</b> 0.25%	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 555 <b>HISTO:</b> 91-59943
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**AUTO PRECLUDES DIAG.**

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

**OBSERVATIONS**

* Heart		Inflammation	Chronic, Focal, Moderate
		Thrombosis	Moderate
* Liver		Hematopoietic Cell Proliferation	Marked
		Hepatocellular Adenoma	
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
	[ Hepatocellular Adenoma TGLS = 3-6 ]		
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Inflammation	Suppurative, Marked
	[ Inflammation TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach		Erosion	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** - Ovary Inflammation

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 404	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 0.25%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 91-60527

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-22, 4-23, 5-24 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 7-2-1 ]		
Lymph Node	Inguinal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 6-8, 6-25 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-21 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Atrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 406

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60717

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Thymus	* Trachea	

**OBSERVATIONS**

* Bone Marrow		Lymphoma Malignant	
* Clitoral Gland		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Lymphoma Malignant	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]			
Lymph Node	Inguinal	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	

[ Hydrometra TGLS = 1-7 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 406

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60717

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
Oral Mucosa	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-23 ]			
* Lung		Sarcoma	Metastatic (Skin)
* Ovary		Granulosa Cell Tumor Malignant	
[ Granulosa Cell Tumor Malignant TGLS = 1-7, 1-21 ]			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 408

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57244

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Lung [ Hyperplasia TGLS = 2-2-1 ]	Alveolar Epith	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-22 ]		
	[ Hepatocellular Carcinoma TGLS = 3-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Mesentery		Inflammation	Chronic, Mild
	Note: TGL #4 probably originated as a focus of necrotic mesenteric fat which became inflamed and adhered to the kidney surface.		
	[ Inflammation TGLS = 4-5-1 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 5-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: t-Butylhydroquinone  
 CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
 Time Report Requested: 03:34:17  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 410      TRT#: 6      SEX: Female      DAY ON TEST: 736  
 DOSE: 0.25%      DISP: Terminal Sacrifice      HISTO: 91-60718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Brain	Meninges	Cyst	Minimal
Note: Lesion is a small cyst.			
Harderian Gland		Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Ovary		Cystadenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 411

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60719

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60720

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Metaplasia	Osseous, Focal, Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Infarct	Marked
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-7 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 413	TRT#: 6 DOSE: 0.25%	SEX: Female DISP: Natural Death	DAY ON TEST: 676 HISTO: 91-60203
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

* Clitoral Gland	* Pituitary Gland
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**AUTO PRECLUDES DIAG.**

\* Gallbladder

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**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 414

TRT#: 6

SEX: Female

DAY ON TEST: 548

DOSE: 0.25%

DISP: Moribund Sacrifice

HISTO: 91-59944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Urinary Bladder		

MISSING

* Ovary	* Parathyroid Gland	* Thyroid Gland	* Trachea
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Lymph Node, Mesenteric		Lymphoma Malignant	
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
Tooth	Incisor	Dysplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 417      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 664  
**DOSE:** 0.25%      **DISP:** Moribund Sacrifice      **HISTO:** 91-60204

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 3-10 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 5-23 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 7-2, 8-2 ]			
Lymph Node	Mediastinal	Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 9-3-1 ]			
* Lymph Node, Mesenteric		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 6-5 ]			
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Pancreas		Hepatocellular Carcinoma	Metastatic (Liver)
Skeletal Muscle		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 4-22 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**      - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 418

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.25%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57245

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 419

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.25%

DISP: Terminal Sacrifice

HISTO: 91-60723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                                |                |                |                  |
|--------------------------------|----------------|----------------|------------------|
| * Kidney                       |                | Nephropathy    | Minimal          |
| * Liver                        |                | Mineralization | Focal, Mild      |
| [ Mineralization TGLS = 2-21 ] |                |                |                  |
| * Thyroid Gland                | Follicular Cel | Hyperplasia    | Minimal          |
| * Uterus                       | Endometrium    | Hyperplasia    | Cystic, Moderate |
| [ Hyperplasia TGLS = 1-7 ]     |                |                |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 420

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.25%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60724

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

* Parathyroid Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: t-Butylhydroquinone  
 CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
 Time Report Requested: 03:34:17  
 First Dose M/F: NA / NA  
 Lab: SRI

<b>ANIMAL ID:</b> 421	<b>TRT#:</b> 8 <b>DOSE:</b> 0.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> 91-60513
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
Lymph Node		Lymphoma Malignant	
Note: TGL #1-22 involves axillary lymph node.			
[ Lymphoma Malignant TGLS = 1-22 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 3-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Lymphoma Malignant TGLS = 4-23 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 5-4-1 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60648

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Inflammation	Focal, Minimal
[ Eosinophilic Focus TGLS = 2-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 423

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57218

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	
Note: Hepatocellular carcinoma lesion has areas of angiectasis and thrombosis.			
			[ Hemangiosarcoma TGLS = 2-21 ]
			[ Hepatocellular Adenoma TGLS = 3-22 ]
Mesentery	Fat	Necrosis	Mild
			[ Necrosis TGLS = 4-23 ]
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Angiectasis	Moderate
		Cyst	Mild
			[ Angiectasis TGLS = 6-7 ]
* Spleen		Angiectasis	Mild
		Fibrosis	Focal, Mild
		Hematopoietic Cell Proliferation	Mild
			[ Fibrosis TGLS = 1-6 ]
			[ Hematopoietic Cell Proliferation TGLS = 1-6 ]
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
			[ Hyperplasia TGLS = 5-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Atrophy	Focal, Minimal
[ Atrophy TGLS = 4-1-1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Marked
		Hepatocellular Carcinoma	
[ Eosinophilic Focus TGLS = 1-21 ]			
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 8

DOSE: 0.5%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 91-60495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
		[ Hepatocellular Adenoma TGLS = 12-26 ]	
		[ Lymphoma Malignant TGLS = 3-22, 4-23, 5-24 ]	
* Lung		Lymphoma Malignant	
Lymph Node	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 6-25 ]	
		[ Lymphoma Malignant TGLS = 10-3-1 ]	
* Lymph Node, Mandibular		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 1-8 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 7-5 ]	
* Spleen		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 2-21, 11-6 ]	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate
		[ Hyperplasia TGLS = 9-7 ]	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 426

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 427

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-6, 2-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Polyp Stromal TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 428

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60649

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Skin	Epidermis	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 2-21 ]			
* Uterus	Endometrium	Hydrometra	Mild
[ Hydrometra TGLS = 1-7 ]		Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 429

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**INSUFFICIENT TISSUE**

\* Ovary

**OBSERVATIONS**

* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-21, 5-22 ]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 2-5 ]		
* Pituitary Gland	Pars Intermed	Adenoma	
	[ Adenoma TGLS = 3-1 ]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-7 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular

- \* Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Thymus

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spleen
- \* Trachea

OBSERVATIONS

- |   |                |                              |                  |
|---|----------------|------------------------------|------------------|
| * Kidney                                |                | Nephropathy                  | Minimal          |
| * Lung                                  |                | Alveolar/Bronchiolar Adenoma |                  |
| * Skin                                  |                | Squamous Cell Papilloma      |                  |
| [ Squamous Cell Papilloma TGLS = 2-21 ] |                |                              |                  |
| * Thyroid Gland                         | Follicular Cel | Hyperplasia                  | Mild             |
| * Uterus                                | Endometrium    | Hyperplasia                  | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 431	<b>TRT#:</b> 8 <b>DOSE:</b> 0.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 734 <b>HISTO:</b> 91-60498
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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
* Gallbladder	* 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
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Kidney		Lymphoma Malignant Nephropathy Hepatocellular Carcinoma	Minimal
* Liver			
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60651

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Kidney			
Note: Right kidney shows excessive artifact.			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 433

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60652

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Hyperplasia	Lymphoid, Focal, Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 0.5%

DISP: Scheduled Sacrifice

HISTO: 91-57219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 429

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-57220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: SCIATIC NERVE EXAMINED; NORMAL.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Thymus
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OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia Inflammation	Mild Chronic, Focal, Mild
[ Hyperplasia TGLS = 2-2-1 ] [ Inflammation TGLS = 2-2-1 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: 0.5%

DISP: Natural Death

HISTO: 90-55442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Mixed Cell, Mild
	Mediastinum, Pleura	Inflammation	Chronic, Moderate
Lymph Node	Renal	Hyperplasia	Marked
[ Hyperplasia TGLS = 5-21 ]			
Mesentery		Inflammation	Chronic, Moderate
* Ovary		Angiectasis	Mild
		Inflammation	Suppurative, Marked
		Thrombosis	Mild
[ Angiectasis TGLS = 6-7 ]			
[ Inflammation TGLS = 3-7 ]			
[ Thrombosis TGLS = 6-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Thymus

OBSERVATIONS

* Liver		Eosinophilic Focus	Minimal
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-5 ]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-1 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 91-60655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Duodenum [ Leiomyosarcoma TGLS = 7-24 ]		Leiomyosarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Necrosis	Focal, Mild
[ Necrosis TGLS = 4-21, 5-22, 6-23 ]			
Mesentery		Inflammation	Chronic, Mild
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Ulcer	Mild
[ Ulcer TGLS = 11-4 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Intestine Small, Duodenum Leiomyosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 441	<b>TRT#:</b> 8 <b>DOSE:</b> 0.5%	<b>SEX:</b> Female <b>DISP:</b> Scheduled Sacrifice	<b>DAY ON TEST:</b> 457 <b>HISTO:</b> 91-57221
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

Mesentery [ Necrosis TGLS = 1-21 ]	Fat	Necrosis	Mild
* Uterus [ Hydrometra TGLS = 3-7 ] [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Moderate

PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary		Cyst	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 82

DOSE: 0.5%

DISP: Moribund Sacrifice

HISTO: 90-52167

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Kidney	Renal Tubule	Casts	Moderate
	Renal Tubule	Pigmentation	Hemoglobin, Moderate
	[ Pigmentation TGLS = 2-5, 2-5-1 ]		
* Ovary		Teratoma Nos	
	[ Teratoma Nos TGLS = 1-21 ]		

PRIMARY CAUSE OF DEATH

- Ovary Teratoma Nos

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	Moderate
		Inflammation	Focal, Minimal
	[ Clear Cell Focus TGLS = 3-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Inflammation	Suppurative, Moderate
	[ Inflammation TGLS = 2-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Inflammation	Chronic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Mild
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 538

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-59933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney		Inflammation	Chronic, Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Lymph Node	Lumbar	Hyperplasia	Marked
	Renal	Hyperplasia	Marked
[ Hyperplasia TGLS = 6-23 ]			
[ Hyperplasia TGLS = 5-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Moderate
Mesentery		Inflammation	Chronic, Moderate
* Ovary		Inflammation	Suppurative, Marked
[ Inflammation TGLS = 2-7-1 ]			
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Marked
[ Inflammation TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Stomach, Glandular		Inflammation	Chronic, Moderate
		Ulcer	Mild
[ Ulcer TGLS = 4-4-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 445

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 538

**DOSE:** 0.5%

**DISP:** Natural Death

**HISTO:** 91-59933

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Ovary Inflammation

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Ovary

OBSERVATIONS

- \* Kidney
  - Note: Nodule on right kidney reported at necropsy is normal ureter in normal cushion of fat. Kidney is normal.
- \* Liver
  - Angiectasis
  - Mild
- \* Lung
  - Alveolar/Bronchiolar Adenoma
- \* Nose
  - Dilatation
  - Focal, Minimal
- \* Uterus
  - Glands, Mucosa
  - Endometrium
  - Hyperplasia
  - Cystic, Moderate
  - Leiomyosarcoma

[ Hyperplasia TGLS = 1-7 ]

[ Leiomyosarcoma TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 447

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60658

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 629

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-59934

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone	Osteosarcoma	
[ Osteosarcoma TGLS = 4-9 ]		
* Lung	Osteosarcoma	Metastatic (Bone)
* Ovary	Cyst	Moderate
[ Cyst TGLS = 2-7 ]		
* Uterus	Hydrometra	Moderate
[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Kidney	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

\* Salivary Glands

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Moderate
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-6 ]			
* Lung	Mediastinum	Lymphoma Malignant	
		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-8 ]			
[ Lymphoma Malignant TGLS = 2-22 ]			
[ Lymphoma Malignant TGLS = 11-27 ]			
[ Lymphoma Malignant TGLS = 10-26 ]			
[ Lymphoma Malignant TGLS = 12-3-1 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 449	<b>TRT#:</b> 8 <b>DOSE:</b> 0.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> 91-60530
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLS = 1-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-24, 9-25 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-23 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 7-7 ]			
[ Hyperplasia TGLS = 8-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60659

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Urinary Bladder

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Mild
* Liver [ Hepatocellular Adenoma TGLS = 3-21 ]		Hepatocellular Adenoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 4-4-1 ]	Epithelium	Hyperplasia Inflammation	Mild Chronic, Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Cyst Hyperplasia	Mild Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-60660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Marked
[ Eosinophilic Focus TGLS = 3-22 ]			
Lymph Node	Mediastinal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-2 ]			
Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-21 ]			
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH - Mesentery Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 0.5%

DISP: Scheduled Sacrifice

HISTO: 91-57222

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

**OBSERVATIONS**

\* Uterus  
[ Hyperplasia TGLS = 1-7 ]

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Mild
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Liver [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Mild
* Mammary Gland [ Carcinoma TGLS = 2-21 ]		Carcinoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 454

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Ovary
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60662

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-8 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary			
Note: One ovary is missing.			
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-21 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Ovary [ Cyst TGLS = 1-7 ]		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8-1 ]		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 459

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 0.5%

**DISP:** Moribund Sacrifice

**HISTO:** 91-60196

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Skin [ Fibrosarcoma TGLS = 1-21 ]	Subcut Tiss	Fibrosarcoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
[ Eosinophilic Focus TGLS = 2-21 ]			
[ Mixed Cell Focus TGLS = 3-22 ]			
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Marked
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60666

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Clear Cell Focus	Mild
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 4-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 462

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.5%

**DISP:** Terminal Sacrifice

**HISTO:** 91-60531

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60499

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Thymus

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Parathyroid Gland  
\* Stomach, Forestomach  
\* Trachea

MISSING

\* Pituitary Gland

OBSERVATIONS

\* Gallbladder  
[ Lymphoma Malignant TGLS = 2-21 ]  
\* Kidney  
\* Liver  
[ Lymphoma Malignant TGLS = 3-22 ]  
\* Uterus  
[ Hydrometra TGLS = 1-7 ]

Endometrium

Lymphoma Malignant

Lymphoma Malignant

Lymphoma Malignant

Hydrometra

Hyperplasia

Moderate

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 8

DOSE: 0.5%

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 418

HISTO: 91-57223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

OBSERVATIONS

* Heart	Myocardium	Mineralization	Focal, Mild
* Liver	Centrilobular	Histiocytic Sarcoma Necrosis	Moderate
	[ Histiocytic Sarcoma TGLS = 2-6, 3-6 ]		
	[ Necrosis TGLS = 2-6 ]		
* Lung		Hemorrhage Histiocytic Sarcoma	Marked
	[ Hemorrhage TGLS = 5-2 ]		
	[ Histiocytic Sarcoma TGLS = 5-2 ]		
* Skin		Alopecia	Focal, Mild
	[ Alopecia TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 4-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Ovary		Angiectasis	Mild
		Hyperplasia	Tubular, Mild
[ Angiectasis TGLS = 2-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: t-Butylhydroquinone  
CAS Number: 1948-33-0

Date Report Requested: 10/20/2014  
Time Report Requested: 03:34:17  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Eosinophilic Focus	Moderate
[ Eosinophilic Focus TGLS = 3-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2-1 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
		Inflammation	Suppurative, Minimal
* Ovary		Cyst	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Gallbladder             | * 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   |
| * Mammary Gland           | * Pancreas                  | * Salivary Glands        | * Skin                     |
| * Spleen                  | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                        |                |                                      |   |
|------------------------|----------------|--------------------------------------|---|
| * Stomach, Forestomach | Epithelium     | Hyperplasia<br>Inflammation<br>Ulcer | Moderate<br>Chronic, Moderate<br>Moderate |
| * Thyroid Gland        | Follicular Cel | Hyperplasia                          | Moderate                                  |
| Tooth                  | Incisor        | Dysplasia                            | Mild                                      |
| * Uterus               | Endometrium    | Hyperplasia                          | Cystic, Moderate                          |

[ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 469

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57224

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Uterus	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Moderate
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[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 2-5 ]		Hemorrhage	Mild
* Ovary [ Cyst TGLS = 1-7 ]		Cyst	Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-60672

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

**OBSERVATIONS**

* Ovary		Cyst Cystadenoma	Mild
[ Cyst TGLS = 1-7 ]			
[ Cystadenoma TGLS = 1-7 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05217-05  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** t-Butylhydroquinone  
**CAS Number:** 1948-33-0

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 03:34:17  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 472

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.5%

**DISP:** Scheduled Sacrifice

**HISTO:** 91-57225

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Ovary		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- |          |                |             |                  |
|----------|----------------|-------------|------------------|
| * Kidney |                | Nephropathy | Minimal          |
| * Nose   | Glands, Mucosa | Dilatation  | Focal, Minimal   |
| * Uterus | Endometrium    | Hyperplasia | Cystic, Moderate |
- [ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60674

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Marked
[ Cyst TGLS = 2-7-1 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 3-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60675

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Lymphoma Malignant Nephropathy	Minimal
* Liver		Eosinophilic Focus Lymphoma Malignant	Multiple, Moderate
[ Eosinophilic Focus TGLS = 4-21 ]			
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thyroid Gland		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 2-22 ]			
[ Hepatocellular Adenoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 478

TRT#: 8

DOSE: 0.5%

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 701

HISTO: 91-60197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Mild Mixed Cell, Mild
* Lung	Interstitial	Inflammation	Suppurative, Mild
	Mediastinum	Inflammation	Chronic, Mild
Lymph Node	Iliac	Hyperplasia	Moderate
	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Marked
	Mediastinal	Inflammation	Suppurative, Focal, Moderate
[ Hyperplasia TGLS = 7-22 ]			
[ Hyperplasia TGLS = 5-3-1 ]			
[ Hyperplasia TGLS = 6-21 ]			
[ Inflammation TGLS = 5-3-1 ]			
Mesentery		Inflammation	Chronic, Moderate
* Ovary		Inflammation	Suppurative, Marked
[ Inflammation TGLS = 3-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Thyroid Gland		Inflammation	Chronic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

- Ovary Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 0.5%

DISP: Natural Death

HISTO: 91-60677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hemorrhage	Focal, Mild
		Histiocytic Sarcoma	
		Necrosis	Focal, Marked
[ Histiocytic Sarcoma TGLS = 4-6, 5-6 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal
* Skin	Subcut Tiss	Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Pigmentation	Focal, Mild
[ Pigmentation TGLS = 7-22 ]			
* Stomach, Glandular		Erosion	Minimal
* Thymus		Histiocytic Sarcoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Histiocytic Sarcoma	
		Hydrometra	Moderate
[ Histiocytic Sarcoma TGLS = 1-21 ]			
[ Hydrometra TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05217-05

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: t-Butylhydroquinone

CAS Number: 1948-33-0

Date Report Requested: 10/20/2014

Time Report Requested: 03:34:17

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 0.5%

DISP: Terminal Sacrifice

HISTO: 91-60678

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 2-7 ]  
[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

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

\* PROTOCOL REQUIRED TISSUE