

Experiment Number: 10987 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 08/20/2019
Time Report Requested: 12:03:41
First Dose M/F: 08/30/10 / 08/31/10
Lab: BAT

NTP Study Number: C10987
Lock Date: 01/15/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

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Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lymph Node, Mandibular
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- * Spleen
- * Thyroid Gland
- Hyperplasia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Degeneration
- Atrophy
- Hyperplasia
- Adenoma
- Hyperplasia
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Minimal
- Minimal
- Chronicprogr, Mild
- Cystic, Minimal
- Mild
- Marked
- Moderate
- Mild
- Chronic Active, Minimal
- Mild
- Moderate
- Marked

[Hyperplasia TGLs = 1-19]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Marked |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 2-20] | | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | Duct | Hyperplasia | Focal, Moderate |
| | | Inflammation | Chronic Active, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Moderate |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 2-11] | | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| | Myocardium | Fibrosis | Focal, Mild |
| | Atrium | Thrombus | Marked |
| | [Thrombus TGLs = 8-21] | | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3,4-17+18] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Artery | Hyperplasia | Moderate |
| | Alveolus | Infiltration Cellular | Histiocyte, Marked |
| | Alveolus | Inflammation | Chronic Active, Moderate |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| | Renal | Infiltration Cellular | Histiocyte, Moderate |
| | [Hyperplasia TGLs = 7-20] | | |
| | [Infiltration Cellular TGLs = 5-19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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Dibutyl Phthalate

CAS Number: 84-74-2

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202535

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland	Bilateral, Duct	Dilation	Minimal
		Inflammation	Chronic, Minimal
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	
	[Cyst Epithelial Inclusion TGLs = 10-22]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate
	[Atrophy TGLs = 6-6]		

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombus

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 506

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Lung
- * Preputial Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- Alveolus
- Bilateral, Duct
- C Cell
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Focal, Mild
- Focal, Mild
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Moderate
- Chronic Active, Minimal
- Minimal
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 603

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Spleen
- * Thymus
- Alveolus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Pigment
- Atrophy
- Minimal
- Minimal
- Mild
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Marked
- Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 611

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland
- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
- * Pancreas
- [Carcinoma TGLs = 1-17]
- * Preputial Gland
- * Stomach, Forestomach
- Testis
- * Thyroid Gland
- Duct
- Acinus
- Acinus
- Bilateral, Duct
- Duct
- Bilateral, Germinal Epith
- C Cell
- Hyperplasia
- Exfoliated Germ Cell
- Cardiomyopathy
- Nephropathy
- Atrophy
- Carcinoma
- Dilation
- Inflammation
- Ulcer
- Degeneration
- Adenoma
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Moderate
- Suppurative, Minimal
- Moderate
- Minimal

PRIMARY CAUSE OF DEATH

- Pancreas Acinus Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Pituitary Gland
- * Preputial Gland
- Note: one preputial gland = missing
- * Skin
- * Spleen
- * Stomach, Forestomach
- Testis
- * Thymus
- Renal Tubule
- Bile Duct
- Pars Distalis
- Bilateral, Duct
- Subcut Tiss
- Germinal Epith
- Hyperplasia
- Vacuolization Cytoplasmic
- Hypercellularity
- Cardiomyopathy
- Inflammation
- Nephropathy
- Hyperplasia
- Hyperplasia
- Dilation
- Inflammation
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Ulcer
- Atrophy
- Atrophy
- Focal, Mild
- Focal, Minimal
- Marked
- Minimal
- Chronic Active, Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Moderate
- Chronic, Minimal
- Moderate
- Minimal
- Mild
- Minimal
- Marked

[Atrophy TGLs = 2-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202539

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 169

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------|--------------|----------------|-----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 603

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Stomach, Forestomach
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Glandular

AUTO PRECLUDES DIAG.

- * Pituitary Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- * Lung
- * Preputial Gland
- * Prostate
- * Seminal Vesicle
- * Skin
- * Spleen
- Testis
- Hyperplasia
- Hypercellularity
- Exfoliated Germ Cell
- Cardiomyopathy
- Thrombus
- Nephropathy
- Infiltration Cellular
- Inflammation
- Dilation
- Inflammation
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Keratoacanthoma
- Atrophy
- Pigment
- Polyarteritis Nodosa
- Mild
- Marked
- Minimal
- Moderate
- Marked
- Chronicprogr, Marked
- Histiocyte, Marked
- Chronic Active, Mild
- Mild
- Suppurative, Mild
- Moderate
- Moderate
- Mild

[Keratoacanthoma TGLs = 1-17]

* PROTOCOL REQUIRED TISSUE

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Dibutyl Phthalate

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Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 603

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202542

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Marked

[Hyperplasia TGLs = 2-11]

PRIMARY CAUSE OF DEATH

- Heart Atrium Thrombus

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Moderate |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Marked |
| | [Hyperplasia TGLs = 1-19] | | |
| * Pancreas | Duct | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | Duct | Inflammation | Suppurative, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| Testis | Bilateral | Polyarteritis Nodosa | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 375

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|---------------|---------------------------|-------------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Peripheral Nerve | Trigeminal | Schwannoma Malignant | |
| [Schwannoma Malignant | TGLs = 1-17] | | |
| * Pituitary Gland | | Schwannoma Malignant | Metastatic (Peripheral Nerve) |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| | | Pigment | Mild |
| * Thymus | | Ectopic Parathyroid Gland | Mild |

PRIMARY CAUSE OF DEATH - Peripheral Nerve Trigeminal Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|-------------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Marked |
| | | Inflammation | Chronic, Mild |
| * Skin | | Keratoacanthoma | |
| | | Pilomatrixoma | |
| | [Pilomatrixoma TGLs = 1-18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Seminif Tub | Dilation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | | Hypospermia | Marked |
| * Heart | Myocardium | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Congestion | Moderate |
| | [Congestion TGLs = 4-12] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Moderate |
| | [Hyperplasia TGLs = 3-18] | | |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | | Basophilic Focus | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Skin | | Inflammation | Chronic Active, Moderate |
| | [Inflammation TGLs = 2-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202546

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Germinal Epith

Atrophy

Marked

Edema

Moderate

[Atrophy TGLs = 1-00]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Heart Myocardium Schwannoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Intestine Large, Colon
- * Kidney
- * Liver
- * Nose
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- * Spleen
- Testis
- Hyperplasia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Angiectasis
- Clear Cell Focus
- Hyperplasia
- Hyperplasia
- Adenoma
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Polyarteritis Nodosa
- Focal, Minimal
- Mild
- Chronicprogr, Mild
- Focal, Minimal
- Minimal
- Minimal
- Mild
- Chronic Active, Minimal
- Moderate
- Mild
- Minimal
- Minimal
- Bilateral, Germinal Epith
- Bilateral

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------|---------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Glioma Malignant | |
| * Epididymis | | Hypospermia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2-17+18] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| | | Polyarteritis Nodosa | Minimal |
| | [Hyperplasia TGLs = 1-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic, Minimal |
| * Seminal Vesicle | | Decreased Secretory Fluid | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202548

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
Testis	Bilateral, Germinal Epith	Atrophy	Moderate
	Bilateral	Polyarteritis Nodosa	Moderate

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Heart
- * Kidney
 - [Nephropathy TGLs = 3-8]
- * Lung
 - [Alveolus TGLs = 3-8]
 - [Alveolus TGLs = 3-8]
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Preputial Gland
 - [Dilation TGLs = 2-18]
- * Skin
 - [Inflammation TGLs = 1-17]
- * Spleen
- * Stomach, Forestomach
- Hyperplasia
- Vacuolization Cytoplasmic
- Glioma Malignant
- Cardiomyopathy
- Inflammation
- Nephropathy
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Hyperplasia
- Dilation
- Inflammation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Inflammation
- Focal, Minimal
- Focal, Mild
- Mild
- Suppurative, Moderate
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Chronic, Minimal
- Plasma Cell, Moderate
- Minimal
- Marked
- Chronic Active, Minimal
- Chronic Active, Marked
- Minimal
- Mild
- Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202549

ORGAN AND ACCOUNTABLE SITE STATUS

Ulcer

Mild

[Inflammation TGLs = 4-9]

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyarteritis Nodosa	Mild
* Kidney	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Chronicprogr, Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic Active, Minimal
	[Infiltration Cellular TGLs = 1-6+7]		
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- Testis
- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Seminal Vesicle
- * Thyroid Gland
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- * Skin
- * Spleen
- Endocardium
- Pelvis
- Alveolus
- Alveolus
- Acinus
- Pars Distalis
- Pars Intermed
- Bilateral, Duct
- [Cyst Epithelial Inclusion TGLs = 1-18]
- Hypertrophy
- Hyperplasia
- Hyperplasia
- Dilation
- Nephropathy
- Clear Cell Focus
- Mixed Cell Focus
- Infiltration Cellular
- Inflammation
- Mineral
- Hyperplasia
- Adenoma
- Hyperplasia
- Dilation
- Inflammation
- Cyst Epithelial Inclusion
- Keratoacanthoma
- Extramedullary Hematopoiesis
- Focal, Minimal
- Mild
- Schwann Cell, Mild
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Mild
- Mild
- Mild
- Chronic Active, Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202551

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Epithel Cell

Pigment
Hyperplasia

Mild
Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| | Aortic Valve, Endothelium | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Inflammation | Acute, Mild |
| | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Marked |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202552

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Inflammation	Acute, Mild
		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	[Clear Cell Focus TGLs = 1-12]		
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland	Bilateral, Duct	Dilation	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic Active, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Pancreas | | Basophilic Focus | |
| | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-11] | | |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Skin | | Keratoacanthoma | |
| | | Pilomatrixoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202554

ORGAN AND ACCOUNTABLE SITE STATUS

[Pilomatrixoma TGLs = 2-18]

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------|----------------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Angiectasis | Focal, Minimal |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | [Clear Cell Focus TGLs = 1-19] | | |
| * Lung | | Mineral | Minimal |
| * Pancreas | | Basophilic Focus | |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Hyperplasia | Lymphoid, Mild |
| | | Pigment | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Vacuolization Cytoplasmic
- * Bone Marrow
 - Hypercellularity
- * Epididymis
 - Duct
 - Exfoliated Germ Cell
 - Hypospermia
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - Clear Cell Focus
 - Hepatocellular Carcinoma
 - Squamous Cell Carcinoma
- Oral Mucosa
 - Pharyngeal
 - [Squamous Cell Carcinoma TGLs = 2-18]
- * Pituitary Gland
 - Pars Distalis
- * Preputial Gland
 - Bilateral, Duct
- * Prostate
 - Epithelium, Ventral
- * Skin
 - Subcut Tiss
 - [Fibrosarcoma TGLs = 1-17]
- * Spleen
 - Extramedullary Hematopoiesis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202556

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Bilateral, Germinal Epith

Pigment

Minimal

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Hyperplasia

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Heart
- * Kidney
- * Lung
- * Parathyroid Gland
- * Pituitary Gland
- [Adenoma TGLs = 1-11]
- * Preputial Gland
- * Prostate
- * Spleen
- Alveolus
- Pars Distalis
- Epithelium, Ventral
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Hyperplasia
- Adenoma
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Mild
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Focal, Minimal
- Chronic Active, Mild
- Focal, Minimal
- Minimal
- Lymphoid, Mild
- Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | |
|-------------------|------------------------------|--------------------|
| * Adrenal Cortex | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | Hypercellularity | Minimal |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Chronicprogr, Mild |
| * Liver | Clear Cell Focus | |
| * Spleen | Extramedullary Hematopoiesis | Minimal |
| | Pigment | Moderate |
| Testis | Interstitial Cell | |
| | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Note: one adrenal gland = missing
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- * Spleen
- Testis
- * Thyroid Gland
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Acinus
- Pars Distalis
- Pars Intermed
- Bilateral, Duct
- Germinal Epith
- C Cell
- C Cell
- Hyperplasia
- Alveolar/Bronchiolar Adenoma
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Focal, Minimal
- Minimal
- Mild
- Chronicprogr, Moderate
- Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Chronic Active, Minimal
- Mild
- Mild
- Minimal
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thymus	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Cholangiofibrosis	Mild
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral, Duct	Dilation	Moderate
		Inflammation	Chronic Active, Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-18]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|---------------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1,2-8+17] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Inflammation | Chronic Active, Minimal |
| * Pancreas | Acinus | Hyperplasia | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-18] | | |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Prostate | Epithelium, Ventral | Hyperplasia | Focal, Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 4-19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 5-20] | | |
| Testis | Interstit Cell | Adenoma | |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| | | Polyarteritis Nodosa | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Moderate |
| * Nose | Submucosa | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Multiple |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Bilateral | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-----------------|-----------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Marked |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Pigment | Moderate |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Islets, Pancreatic | | Adenoma | |
| | [Adenoma TGLs = 3-19] | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 4-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-18] | | |
| * Preputial Gland | | Adenoma | |
| | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Prostate | Epithelium | Hyperplasia | Regenerative, Focal, Minimal |
| | Acinus | Inflammation | Suppurative, Focal, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202564

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Bilateral, Germinal Epith

Atrophy

Minimal

Bilateral

Polyarteritis Nodosa

Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * 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 | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|-----------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Zymbal's Gland | | Carcinoma | |

[Carcinoma TGLs = 1-17]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 694

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|-----------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | Artery | Hyperplasia | Moderate |
| | Endocardium | Schwannoma Malignant | |
| | [Hyperplasia TGLs = 1-17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Pancreas | Acinus | Adenoma | |
| * Spleen | | Pigment | Mild |
| Testis | Bilateral | Polyarteritis Nodosa | Minimal |

PRIMARY CAUSE OF DEATH

- Heart Endocardium Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3-8+18] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Nose | | Inflammation | Suppurative, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-17] | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Pigment | Marked |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|---|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Preputial Gland | Duct | Squamous Cell Carcinoma | |
| | [Squamous Cell Carcinoma TGLs = 1-20] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular |
| Testis | * Thyroid Gland | * Trachea | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| * Pancreas | Acinus | Carcinoma | |
| | Acinus | Hyperplasia | Mild |
| | [Carcinoma TGLs = 3-18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| * Skin | | Ulcer | Marked |
| | [Ulcer TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Marked |
| * Stomach, Forestomach | | Ulcer | Mild |
| | [Ulcer TGLs = 4-9] | | |
| * Thymus | | Atrophy | Moderate |
| * Urinary Bladder | | Hemorrhage | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202569

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 2-8]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Preputial Gland	Bilateral, Duct	Dilation	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Decreased Secretory Fluid	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 409

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Mammary Gland
- * Nose
- * Parathyroid Gland
- * Salivary Glands
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow Lymphoma Malignant
- * Epididymis Bilateral, Duct Exfoliated Germ Cell Minimal
- * Eye Lymphoma Malignant
- * Kidney Lymphoma Malignant
- * Liver Lymphoma Malignant
- * Lung Lymphoma Malignant
- [Lymphoma Malignant TGLs = 8-6+7]
- Lymph Node Mediastinal Lymphoma Malignant
- Bronchial Lymphoma Malignant
- Renal Lymphoma Malignant
- [Lymphoma Malignant TGLs = 5-20]
- [Lymphoma Malignant TGLs = 6-21]
- [Lymphoma Malignant TGLs = 9-23]
- * Lymph Node, Mandibular Lymphoma Malignant
- [Lymphoma Malignant TGLs = 1-17]
- * Lymph Node, Mesenteric Lymphoma Malignant
- [Lymphoma Malignant TGLs = 7-22]
- * Pancreas Lymphoma Malignant
- [Lymphoma Malignant TGLs = 3-19]
- * Pituitary Gland Lymphoma Malignant
- * Preputial Gland Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 409

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202571

ORGAN AND ACCOUNTABLE SITE STATUS

Note: one preputial gland = missing

* Prostate		Decreased Secretory Fluid	
		Lymphoma Malignant	
* Seminal Vesicle		Decreased Secretory Fluid	
* Skin	Subcut Tiss	Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-18]		
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
Testis	Bilateral, Germinal Epith	Degeneration	Mild
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 4-20]		
* Thyroid Gland		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Bone Marrow Lymphoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 676

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Prostate |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------|-------------------------------|-----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3-8+19] | | |
| * Liver | Bile Duct | Cyst | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| | Lymph Node | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 2-18] | | |
| * Pancreas | Acinus | Adenoma | Multiple |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 1-17] | | |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | Duct | Inflammation | Suppurative, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 676

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202572

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Decreased Secretory Fluid	
* Spleen		Pigment	Mild
* Stomach, Forestomach		Ulcer	Moderate
Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Urinary Bladder	Urothelium	Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Preputial Gland
- * Prostate
- * Skin
- [Basal Cell Adenoma TGLs = 1-17]
- * Spleen
- Testis
- Hyperplasia
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Dilation
- Inflammation
- Adenoma
- Basal Cell Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Edema
- Polyarteritis Nodosa
- Sperm Granuloma
- Focal, Mild
- Marked
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Chronic Active, Mild
- Mild
- Mild
- Marked
- Moderate
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202573

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 3,4-00+000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * 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 | * Prostate | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thymus | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-----------------|------------------------------|-------------------------|
| * Harderian Gland | | Infiltration Cellular | Mast Cell, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Granuloma | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Carcinoma | |

[Adenoma TGLs = 1-11]

[Carcinoma TGLs = 1-11]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Prostate
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Stomach, Glandular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla [Pheochromocytoma Malignant TGLs = 2-11] Pheochromocytoma Malignant
- * Epididymis Duct Exfoliated Germ Cell
- * Heart Myocardium Inflammation Minimal
- Myocardium Necrosis Acute, Moderate
- [Inflammation TGLs = 6-10] Multifocal, Moderate
- * Kidney Nephropathy Nephropathy Chronicprogr, Marked
- [Nephropathy TGLs = 3-8+17]
- * Lung Pheochromocytoma Malignant Metastatic (Adrenal Medulla)
- Lymph Node Popliteal Fibrosis Marked
- [Fibrosis TGLs = 7-19]
- * Nose Foreign Body
- Inflammation Acute, Mild
- * Pancreas Acinus Hyperplasia Mild
- * Pituitary Gland Pars Distalis Hyperplasia Marked
- * Preputial Gland Bilateral, Duct Dilatation Minimal
- Inflammation Chronic Active, Minimal
- * Seminal Vesicle Decreased Secretory Fluid
- [Decreased Secretory Fluid TGLs = 4-16]
- * Skin Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202575

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 1-18]

* Spleen	Lymph Follic	Atrophy	Mild
		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Heart Myocardium Necrosis

CONTRIBUTORY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-----------------|------------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Moderate |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|------------------------------|-------------------------|
| * Brain | | Meningioma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | | Granuloma | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral | Mesothelioma Malignant | |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Pituitary Gland | * Prostate | * Skin | * Stomach, Forestomach |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|----------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| Blood Vessel | | Mineral | Moderate |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1-8] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| * Salivary Glands | | Basophilic Focus | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Pigment | Marked |
| * Stomach, Glandular | | Mineral | Mild |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Chronicprogr, Mild |
| | [Adenoma TGLs = 2-20] | | |
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Marked |
| | | Inflammation | Chronic Active, Mild |
| * Prostate | Epithelium, Ventral | Hyperplasia | Focal, Moderate |
| * Skin | | Pilomatrixoma | |
| | [Pilomatrixoma TGLs = 1-19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thymus | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---|---------------------------------|-------------------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | Bile Duct | Clear Cell Focus | |
| | | Cyst | |
| | | Mixed Cell Focus | |
| | [Cyst TGLs = 4-22] | | |
| Lymph Node | Renal | Infiltration Cellular | Histiocyte, Moderate |
| | Bronchial | Neuroendocrine Tumor, Malignant | Metastatic (Uncertain Primary Site) |
| | [Infiltration Cellular TGLs = 5-23] | | |
| | [Neuroendocrine Tumor, Malignant TGLs = 6-24] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Moderate |
| | [Hyperplasia TGLs = 3-21] | | |
| * Nose | Goblet Cell | Hyperplasia | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Parathyroid Gland | | Hyperplasia | Mild |
| Peripheral Nerve | | Paraganglioma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202580

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion	TGLs = 1,2-19+20]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thyroid Gland	Follicle	Dilation	Mild
	Follicular Cel	Hyperplasia	Minimal
[Dilation	TGLs = 7-11]		

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium, Ventral	Hyperplasia	Focal, Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Inflammation	Chronic Active, Mild
		Pigment	Mild
	[Inflammation TGLs = 2-8]		
Testis	Interstitial Cell	Hyperplasia	Focal, Moderate
	Bilateral	Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 1-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 560

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Pituitary Gland
- * Preputial Gland
- * Spleen
- Testis
- * Thymus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Bile Duct
- Pars Distalis
- Bilateral, Duct
- Hyperplasia
- Hyperplasia
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Atrophy
- Bilateral
- Polyarteritis Nodosa
- Atrophy
- Hemorrhage
- Focal, Minimal
- Moderate
- Mild
- Chronicprogr, Moderate
- Minimal
- Minimal
- Minimal
- Chronic Active, Minimal
- Minimal
- Minimal
- Moderate
- Mild
- Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Vacuolization Cytoplasmic
- * Bone Marrow
 - Hypercellularity
- * Epididymis
 - Bilateral, Duct
 - Exfoliated Germ Cell
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - [Nephropathy TGLs = 5-8]
 - Bile Duct
 - Hyperplasia
 - Polyarteritis Nodosa
- * Lymph Node, Mandibular
 - Hyperplasia
- * Pancreas
 - [Hyperplasia TGLs = 2-18]
 - Acinus
 - Adenoma
 - Hyperplasia
 - [Adenoma TGLs = 3-19]
- * Preputial Gland
 - Inflammation
- * Prostate
 - Decreased Secretory Fluid
- * Seminal Vesicle
 - Decreased Secretory Fluid
- * Skin
 - [Decreased Secretory Fluid TGLs = 4-16]
 - Ulcer
 - Ulcer
 - [Ulcer TGLs = 1-17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202583

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Extramedullary Hematopoiesis

Mild

Testis

Bilateral, Germinal Epith

Atrophy

Mild

Bilateral

Polyarteritis Nodosa

Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Mammary Gland
- * Skin
- * Trachea
- * Brain
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Esophagus
- * Intestine Large, Colon
- * Liver
- * Pituitary Gland
- * Thymus
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thyroid Gland

MISSING

- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Adrenal Medulla
- Blood Vessel
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- [Nephropathy TGLs = 1,2,3-8]
- * Lung
- * Nose
- * Parathyroid Gland
- * Preputial Gland
- * Prostate
- * Seminal Vesicle
- * Spleen
- Hyperplasia
- Pheochromocytoma Benign
- Mineral
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Mineral
- Nephropathy
- Hemorrhage
- Infiltration Cellular
- Hyperplasia
- Hyperplasia
- Dilation
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Atrophy
- Focal, Minimal
- Moderate
- Moderate
- Mild
- Moderate
- Moderate
- Mild
- Chronicprogr, Moderate
- Mild
- Histiocyte, Mild
- Minimal
- Mild
- Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202584

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Pigment

Moderate

Mineral

Mild

Testis

Bilateral, Germinal Epith

Degeneration

Marked

Bilateral

Polyarteritis Nodosa

Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * 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 | Testis | * Thymus |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
 - [Cyst TGLs = 2-18]
- * Lung
- * Pancreas
- * Skin
 - [Ulcer TGLs = 1-17]
- * Spleen
- Testis
 - Bilateral
- Hyperplasia
- Cardiomyopathy
- Cyst
- Nephropathy
- Infiltration Cellular
- Polyarteritis Nodosa
- Ulcer
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Polyarteritis Nodosa
- Focal, Mild
- Moderate
- Chronicprogr, Marked
- Histiocyte, Mild
- Minimal
- Moderate
- Moderate
- Lymphoid, Mild
- Mild
- Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------------|-----------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Cholangiofibrosis | Mild |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Mild |
| [Hepatodiaphragmatic Nodule | TGLs = 1-17] | | |
| * Pituitary Gland | Rathkes Cleft | Cyst | |
| | Pars Intermed | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| Testis | Bilateral | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | Testis | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Atypia Cellular | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Skin | | Pilomatrixoma | |
| | [Pilomatrixoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--------------------------|------------------------------|----------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Submucosa | Foreign Body | |
| | | Granuloma | Minimal |
| | | Inflammation | Suppurative, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Moderate |
| * Prostate | Acinus | Dilation | Moderate |
| | [Dilation TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicular Cel | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|-----------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| Note: TGL2 = missing | | | |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Moderate |
| | | Inflammation | Chronic Active, Mild |
| [Dilation TGLs = 1-17] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Moderate |
| | | Hypertrophy | Focal, Minimal |
| | | Metaplasia | Osseous, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Preputial Gland | Bilateral, Duct | Dilation | Marked |
| | | Inflammation | Chronic, Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 424

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-----------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| * Spleen | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Minimal |
| | | Inflammation | Chronic, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Adenoma | |
| | Bilateral, Germinal Epith | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Bilateral	Hypospermia	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Inflammation	Chronic, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
Testis	Bilateral, Germinal Epith	Atrophy	Moderate
	Rete Testis	Dilation	Mild
		Edema	Mild
	Interstitial Cell	Hyperplasia	Focal, Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Preputial Gland
- Testis
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Prostate
- * Seminal Vesicle
- * Skin
- * Spleen
- * Thyroid Gland
- Alveolus
- Acinus
- C Cell
- TGLs = 1-17
- Hyperplasia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Inflammation
- Hyperplasia
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Cyst Epithelial Inclusion
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Focal, Marked
- Minimal
- Chronicprogr, Mild
- Chronic, Minimal
- Mild
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Granuloma Sperm | Marked |
| | [Granuloma Sperm TGLs = 1-17] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Moderate |
| | Bilateral, Interstit Cell | Hyperplasia | Focal, Moderate |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|----------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| | | Pheochromocytoma Benign | |
| * Epididymis | Bilateral | Polyarteritis Nodosa | Minimal |
| * Heart | | Cardiomyopathy | Moderate |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2-8] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Skin | | Ulcer | Marked |
| | [Ulcer TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202597

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Bilateral, Germinal Epith	Atrophy	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|---------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | Subcut Tiss | Fibrosarcoma | |
| | [Cyst Epithelial Inclusion TGLs = 2-18] | | |
| | [Fibrosarcoma TGLs = 1-17] | | |
| * Spleen | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 706

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular
- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - [Hemorrhage TGLs = 2-11]
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Pancreas
- * Pituitary Gland
 - [Adenoma TGLs = 1-11]
- * Seminal Vesicle
- * Spleen
- Testis
- Hemorrhage
- Hyperplasia
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Necrosis
- Hyperplasia
- Adenoma
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Moderate
- Focal, Moderate
- Marked
- Moderate
- Chronicprogr, Moderate
- Minimal
- Minimal
- Mild
- Mild
- Moderate
- Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thymus
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Seminal Vesicle
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Prostate
- * Stomach, Glandular

MISSING

- * Mammary Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- * Adrenal Medulla [Pheochromocytoma Benign TGLs = 2-11] Pheochromocytoma Benign
- * Heart Cardiomyopathy Mild
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney [Nephropathy TGLs = 1-8] Nephropathy Chronicprogr, Marked
- * Liver
 - Bile Duct
 - Hyperplasia Minimal
 - Polyarteritis Nodosa Minimal
 - Infiltration Cellular Histiocyte, Minimal
 - Hyperplasia Minimal
 - Hyperplasia Marked
 - Dilation Mild
 - Inflammation Chronic, Minimal
 - Cyst Epithelial Inclusion
 - Hyperplasia Marked
- * Lung Alveolus
- * Pancreas Acinus
- * Pituitary Gland Pars Distalis
- * Preputial Gland Bilateral, Duct
- * Skin
 - Epidermis
 - [Cyst Epithelial Inclusion TGLs = 4-18]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202600

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 3-17]			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Atrophy	Minimal
	Seminif Tub	Dilation	Mild
	Bilateral	Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLs = 5-19]			

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Preputial Gland
- * Skin
- * Spleen
- Testis
- Hyperplasia
- Vacuolization Cytoplasmic
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Dilation
- Cyst Epithelial Inclusion
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Focal, Mild
- Focal, Marked
- Minimal
- Chronicprogr, Mild
- Minimal
- Mild
- Mild
- Minimal

[Cyst Epithelial Inclusion TGLs = 1-17]

Bilateral, Duct

Bilateral

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3,4-8] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| | [Infiltration Cellular TGLs = 5-6+7] | | |
| * Lymph Node, Mandibular | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | Epidermis | Hyperplasia | Mild |
| | Subcut Tiss | Lipoma | |
| | [Hyperplasia TGLs = 2-18] | | |
| | [Lipoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202602

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Polyarteritis Nodosa

Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|--|---|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Epididymis | Bilateral, Duct
Bilateral | Exfoliated Germ Cell
Hypospermia | Moderate
Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule | Cyst
Nephropathy | Chronicprogr, Marked |
| | [Cyst TGLs = 2,3-8]
[Nephropathy TGLs = 1-8+17] | | |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation
Inflammation | Mild
Chronic, Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | | Extramedullary Hematopoiesis
Pigment | Mild
Mild |
| Testis | Bilateral, Germinal Epith
Bilateral | Degeneration
Polyarteritis Nodosa | Moderate
Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202603

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Epididymis		Granuloma Sperm	Marked
	[Granuloma Sperm TGLs = 1-15]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Fatty Change	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland	Bilateral, Duct	Dilation	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|---------------------------|----------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 1-17] | | |
| * Prostate | | Decreased Secretory Fluid | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-8] | | |
| Testis | Bilateral, Germinal Epith | Degeneration | Mild |

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|----------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 1-8] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic Active, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------------|----------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| [Adenoma TGLs = 1-11] | | | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Parathyroid Gland
- * Skin
- * Thyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- Coagulating Gland
 - [Inflammation TGLs = 2-16]
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-18]
- * Pancreas
- * Preputial Gland
- * Seminal Vesicle
- * Spleen
- Testis
- * Urinary Bladder
- Hyperplasia
- Vacuolization Cytoplasmic
- Hypercellularity
- Inflammation
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Inflammation
- Inflammation
- Extramedullary Hematopoiesis
- Adenoma
- Atrophy
- Calculus Micro Observation Only
- Focal, Minimal
- Focal, Minimal
- Moderate
- Chronic Active, Marked
- Mild
- Chronicprogr, Mild
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Chronic Active, Mild
- Chronic Active, Moderate
- Moderate
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
	[Degeneration TGLs = 1-12]		
* Pancreas	Acinus	Hyperplasia	Minimal
* Preputial Gland	Bilateral, Duct	Dilation	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
Testis	Bilateral, Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Focal, Minimal
	Bilateral	Polyarteritis Nodosa	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney [Nephropathy TGLs = 1,2-8]
- * Liver
- * Nose
- * Pancreas
- * Preputial Gland [Hyperplasia TGLs = 3-17]
- * Spleen
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Bile Duct
- Submucosa
- Acinus
- Acinus
- Bilateral, Duct
- Dilation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Focal, Minimal
- Mild
- Chronicprogr, Marked
- Minimal
- Chronic, Mild
- Suppurative, Minimal
- Minimal
- Marked
- Minimal
- Mild
- Chronic Active, Mild
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202610

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Bilateral, Germinal Epith

Degeneration

Minimal

Bilateral

Polyarteritis Nodosa

Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 565

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------------|--------------|----------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 1-17] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Necrosis | Mild |
| * Pancreas | Acinus | Adenoma | Multiple |
| * Spleen | Lymph Follic | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-11] | | | |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|---|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 2-11] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 1-8] | | |
| * Liver | | Clear Cell Focus | |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Prostate | | Polyarteritis Nodosa | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Marked
	[Nephropathy TGLs = 1,2-8]		
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLs = 3-6+7]	Leiomyosarcoma	
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-----------------|---------------------------|------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Mild |
| | [Adenoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Interstit Cell | Adenoma | |
| | Bilateral, Germinal Epith | Atrophy | Moderate |
| | Bilateral | Edema | Mild |
| | Interstit Cell | Hyperplasia | Focal, Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * 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 | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------------|------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 1-11] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Interstit Cell | Hyperplasia | Focal, Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Nuclear Alteration | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 268

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------|---|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Hemorrhage | Mild |
| * Heart | Pericardium | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 1-10+17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| Testis | Bilateral, Germinal Epith | Degeneration | Moderate |

PRIMARY CAUSE OF DEATH - Heart Pericardium Mesothelioma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------------|-----------|------------------------------|------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| [Degeneration TGLs = 1-12] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|----------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1-8] | | |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-11] | | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| | [Decreased Secretory Fluid TGLs = 2-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------------|----------------|----------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | | Mixed Cell Focus | |
| [Hepatodiaphragmatic Nodule | TGLs = 1-12] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Minimal |
| Testis | Interstit Cell | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Duct	Exfoliated Germ Cell	Mild
	Bilateral	Hypospermia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Atrophy	Moderate
	Bilateral	Edema	Mild
	Bilateral	Polyarteritis Nodosa	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202624

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Pancreas	Acinus	Adenoma	
[Adenoma TGLs = 2-9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Skin		Ulcer	Moderate
[Ulcer TGLs = 1-17]			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 450

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | |
|------------------|----------------|-----------------------|
| * Adrenal Cortex | Hyperplasia | Focal, Mild |
| * Heart | Cardiomyopathy | Mild |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Spleen | Pigment | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- Testis
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Seminal Vesicle
- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Pituitary Gland
- * Prostate
- * Skin
- * Spleen
- * Thyroid Gland
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Alveolus
- Acinus
- Acinus
- [Polyarteritis Nodosa TGLs = 2-19]
- Pars Distalis
- Subcut Tiss
- [Lipoma TGLs = 1-18]
- C Cell
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Atrophy
- Fibrosis
- Hyperplasia
- Polyarteritis Nodosa
- Hyperplasia
- Decreased Secretory Fluid
- Lipoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Mild
- Focal, Minimal
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Minimal
- Moderate
- Moderate
- Mild
- Moderate
- Minimal
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 722

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Nose | | Foreign Body | |
| | | Inflammation | Suppurative, Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-17] | | |
| * Spleen | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Interstit Cell | Hyperplasia | Focal, Minimal |
| | Bilateral | Polyarteritis Nodosa | Moderate |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 2-6+7]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 1-12]		
* Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 685

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|---|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Mild |
| | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3-8+18] | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-7] | | |
| * Prostate | | Decreased Secretory Fluid | |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 685

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202631

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral, Germinal Epith

Atrophy

Marked

Bilateral

Polyarteritis Nodosa

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Preputial Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- * Parathyroid Gland
- * Prostate
- * Seminal Vesicle
- * Spleen
- Testis
- Bilateral, Duct
- Bilateral
- Alveolus
- Bilateral, Germinal Epith
- Bilateral
- Hyperplasia
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Angiectasis
- Cholangioma
- Infiltration Cellular
- Hyperplasia
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Pigment
- Degeneration
- Polyarteritis Nodosa
- Focal, Minimal
- Moderate
- Moderate
- Moderate
- Moderate
- Chronicprogr, Marked
- Focal, Mild
- Histiocyte, Moderate
- Mild
- Mild
- Marked
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202632

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|-----------|---------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Islets, Pancreatic
- * Kidney
- * Liver
- [Hepatodiaphragmatic Nodule TGLs = 2-18]
- * Lung
- * Pancreas
- * Pituitary Gland
- * Skin
- [Fibrosarcoma TGLs = 1-17]
- * Spleen
- Testis
- Hypertrophy
- Cardiomyopathy
- Adenoma
- Nephropathy
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Infiltration Cellular
- Basophilic Focus
- Hyperplasia
- Fibrosarcoma
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Hyperplasia
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Mild
- Mild
- Lymphoid, Mild
- Mild
- Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|----------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | | Mineral | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |
| | Bilateral | Polyarteritis Nodosa | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---|-------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 2-17] | | |
| * Bone Marrow | | Lymphoma Malignant | |
| * Brain | | Hemorrhage | Moderate |
| | [Hemorrhage TGLs = 4-3] | Lymphoma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | | Lymphoma Malignant | |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| Lymph Node | Renal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 3-18] | | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Pancreas | Acinus | Atrophy | Mild |
| Peripheral Nerve | Trigeminal | Degeneration | Mild |
| * Pituitary Gland | | Lymphoma Malignant | |
| Spinal Cord | | Hemorrhage | Moderate |
| * Spleen | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-8] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202637

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Mineral

Minimal

Testis

Bilateral

Polyarteritis Nodosa

Minimal

* Thymus

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

- Lymph Node Renal Lymphoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------|------------------------------|---|----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1,2-8] | | |
| * Liver | | Clear Cell Focus
Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis
Pigment | Minimal |
| | Testis | Degeneration | Mild |
| | Bilateral | Polyarteritis Nodosa | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 585

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Pancreas
- * Pituitary Gland
- * Seminal Vesicle
- * Skin
- * Spleen
- Testis
- Bilateral, Duct
- Bilateral
- Bilateral, Interstitium
- Bile Duct
- Acinus
- Pars Distalis
- [Adenoma TGLs = 2-11]
- [Cyst Epithelial Inclusion TGLs = 1-17]
- Bilateral, Germinal Epith
- Hyperplasia
- Hypertrophy
- Exfoliated Germ Cell
- Hypospermia
- Inflammation
- Cardiomyopathy
- Nephropathy
- Fatty Change
- Hyperplasia
- Hyperplasia
- Adenoma
- Decreased Secretory Fluid
- Cyst Epithelial Inclusion
- Pigment
- Degeneration
- Focal, Mild
- Focal, Minimal
- Mild
- Mild
- Chronic Active, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Minimal
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 609

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|--|-----------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Eye | | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| | Peripheral Nerve | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 2-17] | | |
| * Preputial GI | | | |
| | Note: one preputial gland = missing | | |
| * Spleen | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Atrophy | Moderate |
| | | Edema | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

- Peripheral Nerve Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|---------------------------|--------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Fibrosis | Mild |
| | [Fibrosis TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- [Hepatodiaphragmatic Nodule
- * Lung
- * Pancreas
- [Hyperplasia TGLs = 2-18]
- * Spleen
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Focal, Minimal
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Marked
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Skin
- * Trachea
- * Bone
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Preputial Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Mammary Gland
- * Prostate
- * Stomach, Glandular

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Epididymis
- [Hypospermia TGLs = 7-15]
- * Kidney
- * Liver
- [Lymphoma Malignant TGLs = 2-12]
- * Lung
- [Lymphoma Malignant TGLs = 9-6+7]
- Lymph Node
- Renal
- Mediastinal
- [Lymphoma Malignant TGLs = 4-18]
- [Lymphoma Malignant TGLs = 3-18]
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- [Lymphoma Malignant TGLs = 5-18]
- * Nose
- Goblet Cell
- Hyperplasia
- Lymphoma Malignant
- Lymphoma Malignant
- Hypospermia
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Hyperplasia
- Minimal
- Marked
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202644

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Seminal Vesicle		Decreased Secretory Fluid	
	[Decreased Secretory Fluid TGLs = 8-16]		
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-17]		
Testis	Bilateral, Germinal Epith	Atrophy	Marked
	Rete Testis	Dilation	Mild
	[Atrophy TGLs = 6-00]		

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Preputial Gland
- * Stomach, Forestomach
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Lung
- * Pancreas
- * Prostate
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- Testis
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
 - [Pheochromocytoma Malignant TGLs = 2-11]
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lymph Node, Mandibular
 - [Degeneration TGLs = 3-12]
- * Skin
 - [Fibrosarcoma TGLs = 1-17]
- * Spleen
- * Thyroid Gland
- Pheochromocytoma Benign
- Pheochromocytoma Malignant
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Hyperplasia
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Degeneration
- Fibrosarcoma
- Extramedullary Hematopoiesis
- Adenoma
- Moderate
- Minimal
- Mild
- Chronicprogr, Mild
- Cystic, Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2,3-8] | | |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Basal Cell Adenoma | |
| | [Basal Cell Adenoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |
| | Interstitial Cell | Hyperplasia | Focal, Minimal |
| | Bilateral | Polyarteritis Nodosa | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202646

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Skin
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

Blood Vessel		Mineral	Moderate
* Bone Marrow		Hypercellularity	Minimal
* Epididymis	Duct	Exfoliated Germ Cell	Marked
	Bilateral	Hypospermia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Chronicprogr, Marked
	[Nephropathy TGLs = 2-8]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
		Mineral	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Seminal Vesicle		Decreased Secretory Fluid	
* Spleen	Lymph Follic	Atrophy	Moderate
		Pigment	Moderate
* Stomach, Forestomach		Mineral	Moderate
* Stomach, Glandular		Mineral	Moderate
Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
	[Degeneration TGLs = 1-00+000]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202647

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Epididymis
- * Esophagus
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lung
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Stomach, Glandular
- Testis
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow
 - * Brain
 - * Eye
 - * Heart
 - * Kidney
 - * Lymph Node, Mandibular
 - * Pancreas
 - * Pituitary Gland
 - * Preputial Gland
 - * Skin
 - * Spleen
 - * Stomach, Forestomach
- [Degeneration TGLs = 2-18]
- [Adenoma TGLs = 3-11]
- [Cyst TGLs = 1-17]
- | | | | |
|--|-----------------|----------------------|--------------------------------|
| | Cerebrum | Hypercellularity | Moderate |
| | Cornea | Inflammation | Suppurative, Moderate |
| | | Inflammation | Acute, Moderate |
| | | Cardiomyopathy | Mild |
| | | Nephropathy | Chronicprogr, Moderate |
| | | Degeneration | Cystic, Mild |
| | Acinus | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Mild |
| | Pars Distalis | Adenoma | |
| | | Inflammation | Pyogranulomat, Focal, Moderate |
| | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic, Mild |
| | Eyelid | Cyst | |
| | | Pigment | Moderate |
| | | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

- Brain Cerebrum Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 615

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thymus | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------------|--------------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| * Intestine Small, Jejunum | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 2-17] | | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

- Intestine Small, Jejunum Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Vacuolization Cytoplasmic
 - Focal, Mild
- Blood Vessel
 - Mineral
 - Mild
- * Heart
 - Artery
 - Cardiomyopathy
 - Mineral
 - Mild
- * Intestine Small, Jejunum
 - Necrosis
 - Minimal

Note: TGL2 = intussusception associaetd with villous tip necrosis.
[Necrosis TGLs = 2-17]
- * Kidney
 - Nephropathy
 - Chronicprogr, Marked

[Nephropathy TGLs = 1-8]
- * Liver
 - Bile Duct
 - Hyperplasia
 - Minimal
- * Spleen
 - Lymph Follic
 - Atrophy
 - Mild
 - Pigment
 - Mild
- Testis
 - Bilateral, Germinal Epith
 - Degeneration
 - Mild
 - Bilateral
 - Polyarteritis Nodosa
 - Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma	TGLs = 1-17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic Active, Minimal
* Pancreas		Polyarteritis Nodosa	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral, Duct	Dilation	Marked
		Inflammation	Chronic, Mild
Testis	Bilateral, Germinal Epith	Atrophy	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| * Nose | | Inflammation | Suppurative, Mild |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3,4-8] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 2-17] | | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| | [Degeneration TGLs = 1-12] | | |
| * Pancreas | | Polyarteritis Nodosa | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | Bilateral, Duct | Dilation | Mild |
| | | Inflammation | Chronic Active, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|-----------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral | Polyarteritis Nodosa | Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| | [Adenoma TGLs = 2-18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-11] | | |
| * Skin | Subcut Tiss | Lipoma | |
| | [Lipoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Epididymis | Duct | Exfoliated Germ Cell | Minimal |
| | Bilateral | Hypospermia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | Pelvis | Dilation | Mild |
| | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1-8] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Degeneration | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202658

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Polyarteritis Nodosa

Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Preputial Gland
- * Salivary Glands
- * Skin
- * Stomach, Glandular
- * Thymus
- * Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow
- Lymphoma Malignant
- * Heart
- Cardiomyopathy
- * Kidney
- Nephropathy
- * Liver
- Lymphoma Malignant
- * Lung
- Alveolus
- Infiltration Cellular
- [Infiltration Cellular TGLs = 5-6+7]
- [Lymphoma Malignant TGLs = 5-6+7]
- Lymph Node
- Lumbar
- Hyperplasia
- [Hyperplasia TGLs = 4-18]
- * Pituitary Gland
- Pars Distalis
- Hyperplasia
- * Prostate
- Decreased Secretory Fluid
- Lymphoma Malignant
- [Lymphoma Malignant TGLs = 2-16]
- * Seminal Vesicle
- Decreased Secretory Fluid
- Lymphoma Malignant
- [Lymphoma Malignant TGLs = 3-16]
- * Spleen
- Lymphoma Malignant
- [Lymphoma Malignant TGLs = 1-17]
- * Stomach, Forestomach
- Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202659

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder	Urothelium	Hyperplasia	Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Cecum | Lymphoid Tiss | Hyperplasia | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Lipoma | |
| [Lipoma TGLs = 1-17] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Interstit Cell | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | Testis |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Intestine Large, Cecum

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| | | Polyarteritis Nodosa | Mild |
| | [Adenoma TGLs = 1-17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Skin | Sebaceous GI | Cyst | |
| | [Cyst TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 284

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | |
|------------------|----------------|-----------------------|
| * Adrenal Cortex | Hyperplasia | Focal, Minimal |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Spleen | Pigment | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 706

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------|-------------------------------------|------------------------------|----------------------|
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1-8+17] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-9] | | |
| * Preputial GI | | | |
| | Note: One preputial gland = missing | | |
| * Prostate | Epithelium, Ventral | Hyperplasia | Focal, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| Testis | Bilateral | Polyarteritis Nodosa | Mild |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 644

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Mammary Gland
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Blood Vessel
 - Hypertrophy
 - Mineral
 - Focal, Minimal
 - Mild
- * Bone Marrow
 - Bilateral
 - Hypercellularity
 - Hypospermia
 - Moderate
 - Marked
- * Epididymis
 - [Hypospermia TGLs = 3-15]
- * Heart
 - Cardiomyopathy
 - Mineral
 - Marked
 - Mild
- * Kidney
 - [Nephropathy TGLs = 1-8]
 - Nephropathy
 - Chronicprogr, Marked
- * Liver
 - Bile Duct
 - Hyperplasia
 - Minimal
- * Lung
 - [Hemorrhage TGLs = 4-6+7+17]
 - Hemorrhage
 - Moderate
- * Lymph Node, Mesenteric
 - Hemorrhage
 - Moderate
- * Prostate
 - Decreased Secretory Fluid
- * Seminal Vesicle
 - Decreased Secretory Fluid
- * Spleen
 - Lymph Follic
 - Atrophy
 - Moderate
- * Stomach, Glandular
 - Mineral
 - Moderate
- Testis
 - Bilateral, Germinal Epith
 - Atrophy
 - Marked
 - Interstitial Cell
 - Hyperplasia
 - Focal, Minimal
- [Atrophy TGLs = 2-00+000]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 644

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202667

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| | [Degeneration TGLs = 2-17] | | |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 711

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
Blood Vessel
- * Epididymis
- * Heart
- * Kidney
- * Lung
[Infiltration Cellular TGLs = 1-6+7]
- * Spleen
- * Stomach, Glandular
Testis
- Vacuolization Cytoplasmic
Mineral
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Mineral
- Nephropathy
- Infiltration Cellular
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Degeneration
- Polyarteritis Nodosa
- Focal, Minimal
- Moderate
- Moderate
- Mild
- Mild
- Mild
- Chronicprogr, Marked
- Histiocyte, Mild
- Mild
- Mild
- Moderate
- Moderate
- Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mesenteric
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- Alveolus
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Lymphoma Malignant
- Infiltration Cellular
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Hyperplasia
- Lymphoma Malignant
- Degeneration
- Hyperplasia
- Adenoma
- Mild
- Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Minimal
- Mild
- Focal, Mild

PRIMARY CAUSE OF DEATH

- Liver Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 1-11] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 1-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 663

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Pelvis | Dilation | Moderate |
| | | Nephropathy | Chronicprogr, Marked |
| | [Dilation TGLs = 3-8] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------|------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Moderate |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | Testis | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|---------------------------|-------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Lipoma | |
| | | Nephropathy | Chronicprogr, Moderate |
| | [Lipoma TGLs = 2-18] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|----------------------|-----------|------------------------------|------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Glioma Malignant | |
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 3-8] | | |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Polyarteritis Nodosa | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 2-18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst Multilocular | |
| | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Skin | | Squamous Cell Papilloma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202678

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLs = 1-17]

* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Mild

Testis

Bilateral, Germinal Epith

Atrophy

Marked

Bilateral, Interstit Cell

Hyperplasia

Diffuse, Mild

Bilateral

Polyarteritis Nodosa

Moderate

* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 722

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- * Parathyroid Gland
- * Seminal Vesicle
- * Spleen
- * Stomach, Glandular
- Testis
- [Nephropathy TGLs = 1-8]
- Bilateral, Duct
- Bilateral
- Bile Duct
- Alveolus
- Bilateral, Germinal Epith
- Bilateral
- Hyperplasia
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Polyarteritis Nodosa
- Focal, Mild
- Mild
- Moderate
- Moderate
- Mild
- Chronicprogr, Marked
- Minimal
- Histiocyte, Minimal
- Mild
- Minimal
- Mild
- Mild
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Mild |
| | Bilateral | Hypospermia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| | Atrium | Thrombus | Marked |
| | [Thrombus TGLs = 3-10] | | |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 1-8] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | Lymph Follic | Atrophy | Marked |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Degeneration | Mild |

PRIMARY CAUSE OF DEATH

- Heart Atrium Thrombus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Mild |
| | [Adenoma TGLs = 2-17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Degeneration | Moderate |
| | | Edema | Moderate |
| | [Edema TGLs = 1-00] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Preputial Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow Hypercellularity Marked
- * Epididymis Bilateral Hypospermia Marked
 - [Hypospermia TGLs = 3-15]
- * Heart Cardiomyopathy Mild
- * Kidney Nephropathy Chronicprogr, Marked
 - [Nephropathy TGLs = 1-8]
- * Pancreas Acinus Hyperplasia Mild
- * Parathyroid Gland Hyperplasia Mild
- * Pituitary Gland Pars Distalis Adenoma
- * Prostate Decreased Secretory Fluid
- * Seminal Vesicle Decreased Secretory Fluid
- * Spleen Extramedullary Hematopoiesis Mild
- Testis Bilateral, Germinal Epith Atrophy Marked
 - Mineral Minimal
 - Bilateral Polyarteritis Nodosa Minimal
 - [Atrophy TGLs = 2-00+000]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---|---------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Epididymis | Bilateral | Hypospermia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| | [Nephropathy TGLs = 2,3-8+18] | | |
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Minimal |
| * Nose | | Foreign Body | |
| | | Inflammation | Suppurative, Minimal |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-17] | | |
| * Spleen | | Pigment | Marked |
| Testis | Bilateral, Germinal Epith | Atrophy | Moderate |
| | Bilateral | Polyarteritis Nodosa | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
		Polyarteritis Nodosa	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Marked
* Preputial Gland	Bilateral, Duct	Dilation	Moderate
		Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Bilateral	Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Seminal Vesicle
- * Thymus
- Blood Vessel
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Preputial Gland
- * Skin
- * Thyroid Gland
- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Stomach, Forestomach
- * Trachea
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
 - [Hemorrhage TGLs = 7-4]
- * Epididymis
 - Duct
- * Heart
- * Kidney
 - [Nephropathy TGLs = 4-8]
- * Liver
- Lymph Node
 - Mediastinal
 - [Leukemia Mononuclear TGLs = 5-19]
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
 - [Leukemia Mononuclear TGLs = 6-20]
- * Pituitary Gland
 - Pars Distalis
- Spinal Cord
- * Spleen
- Hyperplasia
- Leukemia Mononuclear
- Hemorrhage
- Focal, Minimal
- Marked
- Minimal
- Minimal
- Chronicprogr, Moderate
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Hyperplasia
- Hemorrhage
- Hemorrhage
- Minimal
- Marked
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202685

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hemorrhage TGLs = 2-18]

[Leukemia Mononuclear TGLs = 1-17]

Testis

Bilateral, Germinal Epith

Degeneration

Minimal

PRIMARY CAUSE OF DEATH

- Brain Hemorrhage

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Epididymis
- * Eye
- [Hemorrhage TGLs = 1-13]
- * Heart
- * Kidney
- [Nephropathy TGLs = 3-17+18]
- * Liver
- * Pituitary Gland
- * Seminal Vesicle
- * Spleen
- Testis
- Hemorrhage
- Hypercellularity
- Hypospermia
- Hemorrhage
- Inflammation
- Ulcer
- Cornea
- Cornea
- Cardiomyopathy
- Cyst
- Dilation
- Nephropathy
- Bile Duct
- Hyperplasia
- Mixed Cell Focus
- Polyarteritis Nodosa
- Hyperplasia
- Decreased Secretory Fluid
- Pigment
- Atrophy
- Moderate
- Minimal
- Marked
- Marked
- Acute, Moderate
- Focal, Moderate
- Mild
- Minimal
- Chronicprogr, Marked
- Minimal
- Minimal
- Marked
- Minimal
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202686

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Polyarteritis Nodosa

Mild

[Atrophy TGLs = 2-000]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Renal Tubule	Cyst	
		Nephropathy	Chronicprogr, Moderate
	[Cyst TGLs = 1-17]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Mineral	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-11]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Marked
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Pelvis | Dilation | Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Skeletal Muscle | | Rhabdomyosarcoma | |
| | [Rhabdomyosarcoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla [Pheochromocytoma Benign TGLs = 3-11] Bilateral Pheochromocytoma Benign
- * Epididymis Bilateral Hypospermia Marked
- * Heart Bilateral Polyarteritis Nodosa Moderate
- * Kidney [Nephropathy TGLs = 1,2-8+17] Nephropathy Cardiomyopathy Mild
- * Liver Clear Cell Focus Chronicprogr, Marked
- * Lung [Inflammation TGLs = 4-6] Alveolus Inflammation Hyperplasia Minimal
- * Lymph Node, Mandibular Polyarteritis Nodosa Chronic Active, Minimal
- * Pancreas Inflammation Minimal
- * Preputial Gland Bilateral Polyarteritis Nodosa Minimal
- * Spleen Extramedullary Hematopoiesis Mild
- Testis Interstit Cell Pigment Minimal
- Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202689

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral, Germinal Epith

Atrophy

Marked

Rete Testis

Dilation

Moderate

Bilateral

Polyarteritis Nodosa

Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 519

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|---------------------------|-----------------------|
| * Brain | | Glioma Malignant | |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Degeneration | Mild |

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 4-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | Subcut Tiss | Cyst Epithelial Inclusion | |
| | | Inflammation | Chronic Active, Moderate |
| | | Ulcer | Moderate |
| | [Cyst Epithelial Inclusion TGLs = 2-18] | | |
| | [Inflammation TGLs = 3-19] | | |
| | [Ulcer TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 715

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Lung | Alveolus | Granuloma | Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | Infiltration Cellular | Histiocyte, Mild |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Preputial Gland | | Hyperplasia | Squamous, Mild |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Intermed Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| Testis | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Hyperplasia | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Heart
- * Kidney
 - [Dilation TGLs = 3-8]
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-17]
- * Spleen
- Pelvis
- Alveolus
- Alveolus
- Hyperplasia
- Cardiomyopathy
- Dilation
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Mild
- Minimal
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Chronic, Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 141

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202695

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------------------|------------|----------------------|-------------------------------|
| * Eye | | Phthisis Bulbi | |
| Note: optic nerve = missing | | | |
| [Phthisis Bulbi TGLs = 2-13] | | | |
| * Harderian Gland | | Schwannoma Malignant | Metastatic (Peripheral Nerve) |
| [Schwannoma Malignant TGLs = 1-17] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Mineral | Minimal |
| Peripheral Nerve | Trigeminal | Schwannoma Malignant | |
| Note: TGL3 = pituitary gland invasion | | | |
| [Schwannoma Malignant TGLs = 3-18] | | | |
| * Spleen | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH - Peripheral Nerve Trigeminal Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * 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 | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thymus |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|------------------------------|----------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Harderian Gland | | Karyomegaly | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Carcinoma | Metastatic (Thyroid Gland) |
| | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Stomach, Glandular | Glands | Ectasia | Minimal |
| * Thyroid Gland | C Cell | Carcinoma | |
| | [Carcinoma TGLs = 1-11] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|-----------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Skin | Subcut Tiss | Fibrolipoma | |
| | [Fibrolipoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Parathyroid Gland
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Salivary Glands
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Stomach, Glandular

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lymph Node, Mesenteric
- * Pancreas
- * Pituitary Gland
- * Prostate
- * Seminal Vesicle
- * Skin
- [Fibroma TGLs = 1-17]
- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- * Urinary Bladder
- Bile Duct
- Acinus
- Pars Distalis
- Subcut Tiss
- Lymph Follic
- Epithelium
- C Cell
- Urothelium
- Hypertrophy
- Hypercellularity
- Nephropathy
- Hyperplasia
- Hemangioma
- Hyperplasia
- Hyperplasia
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Fibroma
- Atrophy
- Pigment
- Hyperplasia
- Ulcer
- Adenoma
- Inflammation
- Focal, Minimal
- Moderate
- Chronicprogr, Marked
- Minimal
- Minimal
- Mild
- Mild
- Mild
- Mild
- Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202698

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Hyperplasia	Marked
	[Hyperplasia TGLs = 1-17]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
Testis	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
Testis	Bilateral, Germinal Epith	Degeneration	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Epididymis | Bilateral | Hypertrophy | Focal, Mild |
| * Heart | | Hypospermia | Marked |
| * Kidney | | Cardiomyopathy | Mild |
| * Liver | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Infiltration Cellular | Histiocyte, Minimal |
| * Prostate | | Hyperplasia | Minimal |
| * Spleen | | Decreased Secretory Fluid | |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | | Edema | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 654

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Pigment | Moderate |
| Testis | Germinal Epith | Atrophy | Minimal |
| | Bilateral | Polyarteritis Nodosa | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Pituitary Gland
- * Skin
- * Spleen
- * Thyroid Gland
- Alveolus
- Alveolus
- Pars Distalis
- Subcut Tiss
- [Fibrosarcoma TGLs = 1-17]
- C Cell
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Fibrosarcoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Focal, Mild
- Focal, Mild
- Mild
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Chronic Active, Minimal
- Mild
- Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------|------------------------------|------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Fatty Change | Focal, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| Testis | Interstit Cell | Hyperplasia | Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|----------------------|-----------------------|--------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Cyst | |
| | [Cyst TGLs = 1-17] | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Spleen | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Epididymis | | Hypospermia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Decreased Secretory Fluid | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| Testis | Bilateral, Germinal Epith | Atrophy | Moderate |
| | Bilateral | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Pituitary Gland
- * Spleen
- Testis
- * Thyroid Gland
- Renal Tubule
- Alveolus
- Goblet Cell
- Pars Distalis
- Bilateral
- C Cell
- Hypertrophy
- Cardiomyopathy
- Cyst
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Adenoma
- Focal, Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Minimal
- Minimal
- Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular
- * Salivary Glands

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Pituitary Gland
- * Preputial Gland
- [Dilation TGLs = 1-14]
- * Spleen
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Alveolus
- Acinus
- Pars Distalis
- Bilateral, Duct
- Duct
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Hyperplasia
- Dilation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Minimal
- Minimal
- Minimal
- Focal, Mild
- Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|--------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Harderian Gland | * 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 | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Thymus | * Trachea | * Urinary Bladder | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|--------------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Moderate |
| | Bilateral | Hypospermia | Mild |
| * Eye | Cornea | Erosion | Multifocal, Minimal |
| | Antr Chamber | Inflammation | Suppurative, Mild |
| * Heart | Artery | Mineral | Mild |
| * Kidney | | Mineral | Mild |
| | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 2-8] | | |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Lymph Node | Hemorrhage | Moderate |
| | [Hemorrhage TGLs = 3-18] | | |
| * Pancreas | Acinus | Atrophy | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Stomach, Forestomach | | Leiomyosarcoma | |
| | | Ulcer | Marked |
| | [Leiomyosarcoma TGLs = 1-17] | | |
| * Stomach, Glandular | | Mineral | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202711

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Bilateral, Germinal Epith	Degeneration	Moderate
	Rete Testis	Dilation	Mild
[Degeneration	TGLs = 4-00+000]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Stomach, Forestomach Leiomyosarcoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Epididymis | | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Interstit Cell | Adenoma | |

[Adenoma TGLs = 1-00]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------|--|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| | Epithelium, Renal Tubule | Pigment | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Skin | Subcut Tiss | Hemorrhage | Marked |
| | | Ulcer | Minimal |
| | [Hemorrhage TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | [Extramedullary Hematopoiesis TGLs = 2-18] | | |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 1-17] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 666

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | Subcut Tiss | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 3-18] | Fibroma | |
| | [Fibroma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- Femur
- Alveolus
- Goblet Cell
- Acinus
- Pars Distalis
- C Cell
- Metaplasia
- Osteopetrosis
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Infiltration Cellular
- Hyperplasia
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Adenoma
- Osseous, Moderate
- Moderate
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | Testis | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|----------------------|---------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | Epithelium, Ventral | Hyperplasia | Focal, Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Glandular | | Erosion | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|----------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | Periportal | Fibrosis | Focal, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Granuloma | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Goblet Cell | Hyperplasia | Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| Testis | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------------|---------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma | TGLs = 1-17] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | Subcut Tiss | Fibrolipoma | |
| [Fibrolipoma | TGLs = 2-18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| Testis | Bilateral | Polyarteritis Nodosa | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|------------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-18] | | |
| * Nose | | Foreign Body | |
| | Goblet Cell | Hyperplasia | Minimal |
| | | Inflammation | Suppurative, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
 - [Nephropathy TGLs = 3,4-8]
- * Liver
 - [Cholangiofibrosis TGLs = 1-17]
- * Lung
- * Pancreas
 - [Adenoma TGLs = 2-18]
- * Parathyroid Gland
- * Spleen
- * Stomach, Glandular
- Testis
 - Bilateral, Germinal Epith
 - Interstitial Cell
- Vacuolization Cytoplasmic
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Cholangiofibrosis
- Clear Cell Focus
- Inflammation
- Adenoma
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Edema
- Hyperplasia
- Mild
- Marked
- Minimal
- Chronicprogr, Marked
- Moderate
- Chronic, Minimal
- Moderate
- Mild
- Minimal
- Mild
- Minimal
- Marked
- Moderate
- Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202721

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Polyarteritis Nodosa

Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Pancreas | Acinus | Atrophy | Mild |
| | Duct | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Stomach, Glandular | | Mineral | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Mild |
| | Seminif Tub | Dysgenesis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Thyroid Gland
- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Mammary Gland
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Liver
- * Nose
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Thymus

MISSING

- * Intestine Small, Ileum
- * Preputial Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- Blood Vessel [Mineral TGLs = 3-10] Mineral Moderate
- * Epididymis Bilateral, Duct Exfoliated Germ Cell Marked
- * Heart Cardiomyopathy Moderate
- * Kidney Mineral Mild
- [Nephropathy TGLs = 2-8] Nephropathy Chronicprogr, Marked
- * Lung Alveolus Infiltration Cellular Histiocyte, Minimal
- Mineral Mild
- * Pancreas Acinus Hyperplasia Mild
- * Prostate Decreased Secretory Fluid
- * Salivary Glands Mineral Mild
- * Seminal Vesicle Decreased Secretory Fluid
- * Spleen Lymph Follic Atrophy Mild
- Pigment Marked
- * Stomach, Glandular Mineral Moderate
- Testis Bilateral, Germinal Epith Degeneration Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202723

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Polyarteritis Nodosa

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|------------------------------|
| Blood Vessel | | Mineral | Minimal |
| * Epididymis | Duct | Exfoliated Germ Cell | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | | Hemorrhage | Minimal |
| * Kidney | Bilateral, Pelvis | Dilation | Moderate |
| | | Mineral | Minimal |
| | | Nephropathy | Chronicprogr, Moderate |
| | [Dilation TGLs = 5-8+19] | | |
| * Lung | | Sarcoma | Metastatic (Skeletal Muscle) |
| * Nose | Squam Epithel | Degeneration | Minimal |
| | | Foreign Body | |
| | Olfactory Epi | Inflammation | Acute, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| | [Decreased Secretory Fluid TGLs = 3-16] | | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| | [Decreased Secretory Fluid TGLs = 4-16] | | |
| | Skeletal Muscle | Sarcoma | |
| | [Sarcoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202724

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Pigment	Mild
Testis	Bilateral, Germinal Epith	Mineral	Minimal
* Thyroid Gland	C Cell	Degeneration	Mild
Ureter		Adenoma	
		Cyst	
[Cyst TGLs = 2-18]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
[Degeneration TGLs = 1-12]			
* Nose	Globlet Cell	Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 625

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Congestion	Moderate
		Hemorrhage	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Spleen	Lymph Follic	Atrophy	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Brain
 - Cranial Nerve
 - [Schwannoma Malignant TGLs = 2,4-11+18]
- * Epididymis
 - Bilateral, Duct
- * Eye
 - Optic Nerve
 - [Schwannoma Malignant TGLs = 3-13]
- * Harderian Gland
- * Heart
- * Kidney
- * Lung
 - Alveolus
- * Pituitary Gland
 - Note: Extension of TGL2 and TGL4 into pituitary gland
- * Skin
 - [Ulcer TGLs = 1-17]
- * Spleen
 - Lymph Follic
- * Stomach, Forestomach
- Testis
 - Bilateral, Germinal Epith
- * Thymus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202729

ORGAN AND ACCOUNTABLE SITE STATUS

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH

- Brain Cranial Nerve Schwannoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1,2-17+18]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 3-19]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
Testis	Bilateral, Germinal Epith	Degeneration	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 609

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-17] | | | |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 691

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Lung
- * Nose
- * Skin
- * Spleen
- * Thymus
- Alveolus
- Subcut Tiss
- [Lipoma TGLs = 1-17]
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Foreign Body
- Inflammation
- Lipoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Minimal
- Mild
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Suppurative, Minimal
- Mild
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 201

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Suppurative, Minimal |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 202

TRT#: 9

SEX: Male

DAY ON TEST: 705

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Epididymis [Hypospermia TGLs = 2-17] Hypospermia Marked
- * Heart Cardiomyopathy Moderate
- * Kidney Nephropathy Chronicprogr, Mild
- * Liver Clear Cell Focus
- * Lung Hepatocyte Cytoplasmic Alteration Minimal
- * Pituitary Gland Alveolus Infiltration Cellular Histiocyte, Minimal
- * Seminal Vesicle Pars Distalis Hyperplasia Minimal
- * Spleen Pars Distalis Hypertrophy Minimal
- Testis Decreased Secretory Fluid
- [Atrophy TGLs = 1-000] Extramedullary Hematopoiesis Mild
- * Thyroid Gland C Cell Bilateral, Germinal Epith Atrophy Marked
- Hyperplasia Minimal

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---|-----------------|---------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Epididymis | | Hypospermia | Marked |
| Note: right epididymis = missing | | | |
| [Hypospermia TGLs = 4-15] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| [Infiltration Cellular TGLs = 7-6+7] | | | |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Adenoma | |
| [Adenoma TGLs = 6-20] | | | |
| * Pituitary Gland | Pars Distalis | Hypertrophy | Minimal |
| * Preputial Gland | Bilateral, Duct | Dilation | Moderate |
| * Prostate | | Decreased Secretory Fluid | |
| [Decreased Secretory Fluid TGLs = 5-16] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202735

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Lipoma Ulcer	Marked
	[Lipoma TGLs = 2-19]		
	[Ulcer TGLs = 1-18]		
* Spleen		Extramedullary Hematopoiesis Pigment	Mild Marked
Testis	Bilateral, Germinal Epith Bilateral, Interstit Cell Bilateral	Atrophy Hyperplasia Polyarteritis Nodosa	Marked Diffuse, Moderate Marked
Note: Right testis = missing			
	[Atrophy TGLs = 3-00]		

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 204

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|----------------|------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Marked |
| Testis | Germinal Epith | Atrophy | Minimal |
| | Interstit Cell | Hyperplasia | Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Adenoma	
	[Adenoma TGLs = 3-18]		
* Preputial Gland	Bilateral, Duct	Dilation	Marked
	[Dilation TGLs = 2-17]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Moderate
Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Atrophy	Marked
		Edema	Marked
	[Adenoma TGLs = 1-00]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
- * Liver
- [Cholangiocarcinoma TGLs = 1-17]
- * Lung
- * Pancreas
- * Pituitary Gland
- * Spleen
- Testis
- [Atrophy TGLs = 2-000]
- Hyperplasia
- Vacuolization Cytoplasmic
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Cholangiocarcinoma
- Clear Cell Focus
- Cytoplasmic Alteration
- Hepatocyte
- Alveolus
- Acinus
- Pars Intermed
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- Infiltration Cellular
- Adenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Polyarteritis Nodosa
- Focal, Mild
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Minimal
- Minimal
- Mild
- Mild
- Marked
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 207

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|------------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Fatty Change | Focal, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Nose | | Inflammation | Suppurative, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| Skeletal Muscle | | Inflammation | Pyogranulomat, Marked |
| | [Inflammation TGLs = 2-18] | | |
| * Skin | | Inflammation | Chronic Active, Marked |
| | [Ulcer TGLs = 1-17] | Ulcer | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Marked |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 207

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202739

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Focal, Minimal

[Atrophy TGLs = 3-000]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Inflammation

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Pancreas
- * Pituitary Gland
- * Prostate
- * Spleen
- Testis
- Hepatocyte
- Bile Duct
- Alveolus
- Acinus
- Pars Distalis
- Bilateral, Germinal Epith
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Degeneration
- Hyperplasia
- Hyperplasia
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Edema
- Lymphoma Malignant
- Marked
- Mild
- Chronicprogr, Mild
- Minimal
- Minimal
- Histiocyte, Minimal
- Cystic, Mild
- Mild
- Minimal
- Minimal
- Mild
- Marked
- Marked

Note: left testis = cystic

* Thymus

[Lymphoma Malignant TGLs = 1-17]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 677

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Salivary Glands
- * Thyroid Gland
- Blood Vessel
- * Harderian Gland
- * Intestine Small, Duodenum
- * Mammary Gland
- * Seminal Vesicle
- * Trachea
- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Skin
- * Urinary Bladder
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Stomach, Forestomach

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
- * Epididymis
- [Hypospermia TGLs = 8-15]
- * Heart
- * Kidney
- * Liver
- * Lung
- Lymph Node
- Renal
- Mediastinal
- Lumbar
- [Lymphoma Malignant TGLs = 2-18]
- [Lymphoma Malignant TGLs = 3-19]
- [Lymphoma Malignant TGLs = 4-20]
- * Lymph Node, Mandibular
- [Lymphoma Malignant TGLs = 1-17]
- * Lymph Node, Mesenteric
- [Lymphoma Malignant TGLs = 6-22]
- * Nose
- Hyperplasia
- Lymphoma Malignant
- Lymphoma Malignant
- Hypospermia
- Lymphoma Malignant
- Cardiomyopathy
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Focal, Minimal
- Marked
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 677

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202741

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Lymphoma Malignant	
* Preputial Gland		Lymphoma Malignant	
* Prostate		Decreased Secretory Fluid	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-21]		
* Stomach, Glandular		Lymphoma Malignant	
Testis	Germinal Epith	Atrophy	Marked
		Lymphoma Malignant	
	[Atrophy TGLs = 7-000]		
* Thymus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Brain Lymphoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 512

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow
 - * Epididymis
 - * Heart
 - * Kidney
 - * Liver
 - * Lung
 - [Lymphoma Malignant TGLs = 5-20]
 - Lymph Node
 - [Lymphoma Malignant TGLs = 4-19]
 - Mesentery
 - [Necrosis TGLs = 2-18]
 - * Skin
 - [Fibrosarcoma TGLs = 1-17]
 - * Spleen
 - Testis
 - [Atrophy TGLs = 3-000]
- Lymphoma Malignant
 Hypospermia
 Cardiomyopathy
 Nephropathy
 Degeneration
 Fatty Change
 Lymphoma Malignant
 Lymphoma Malignant
 Lymphoma Malignant
 Necrosis
 Fibrosarcoma
 Extramedullary Hematopoiesis
 Pigment
 Atrophy
- Marked
 Minimal
 Chronicprogr, Minimal
 Cystic, Minimal
 Focal, Minimal
 Moderate
 Mild
 Minimal
 Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 512

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202742

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 211

TRT#: 9

SEX: Male

DAY ON TEST: 654

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Pancreas
- * Pituitary Gland
- * Spleen
- Testis
- [Atrophy TGLs = 1-000]
- Zymbal's Gland
- [Carcinoma TGLs = 3-17]
- Hypertrophy
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Edema
- Polyarteritis Nodosa
- Carcinoma
- Focal, Mild
- Mild
- Marked
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic Active, Mild
- Minimal
- Mild
- Moderate
- Marked
- Marked
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 211

TRT#: 9

SEX: Male

DAY ON TEST: 654

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202743

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 212

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------------|-----------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| [Hypospermia TGLs = 2-15] | | | |
| * Heart | Myocardium | Cardiomyopathy | Mild |
| * Kidney | | Schwannoma Malignant | |
| * Liver | | Nephropathy | Chronicprogr, Minimal |
| | | Clear Cell Focus | |
| * Pituitary Gland | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| [Decreased Secretory Fluid TGLs = 3-16] | | | |
| * Salivary Glands | | Hyperplasia | Mild |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| [Decreased Secretory Fluid TGLs = 4-16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | | Edema | Marked |
| | Bilateral, Interstit Cell | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 212

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202744

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 1-00+000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 213

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla [Pheochromocytoma Benign TGLs = 1-11] Pheochromocytoma Benign
 - * Epididymis Hypospermia Moderate
 - * Heart Cardiomyopathy Minimal
 - * Intestine Large, Rectum Parasite Metazoan
 - * Kidney Nephropathy Chronicprogr, Mild
 - * Liver Clear Cell Focus
 - Hepatocyte Cytoplasmic Alteration Minimal
 - * Pancreas Acinus Hyperplasia Mild
 - * Parathyroid Gland Hyperplasia Moderate
 - * Pituitary Gland Pars Distalis Hyperplasia Minimal
 - * Spleen Extramedullary Hematopoiesis Mild
 - Testis Bilateral, Germinal Epith Atrophy Marked
 - Seminif Tub Dysgenesis Minimal
 - Rete Testis Edema Marked
 - Fibrosis Moderate
- [Atrophy TGLs = 2-000]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 214

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-----------------|------------------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Interstitialium | Fibrosis | Focal, Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Mild |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 215

TRT#: 9

SEX: Male

DAY ON TEST: 400

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Pancreas

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------------|---------------------|
| * Brain | | Oligodendroglioma Malignant | |
| | [Oligodendroglioma Malignant TGLs = 3-3+4] | | |
| * Epididymis | | Hypospermia | Marked |
| | [Hypospermia TGLs = 2-15] | | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Bilateral, Interstit Cell | Hyperplasia | Diffuse, Moderate |
| | [Atrophy TGLs = 1-00+000] | | |

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 231

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * 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 | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Lymphoma Malignant | |
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Eye | | Lymphoma Malignant | |
| * Heart | | Lymphoma Malignant | |
| | Myocardium | Necrosis | Multifocal, Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Lymphoma Malignant | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Preputial Gland | | Lymphoma Malignant | |
| * Prostate | | Decreased Secretory Fluid | |
| | | Lymphoma Malignant | |
| * Spleen | | Lymphoma Malignant | |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | | Hemorrhage | Moderate |
| | Bilateral, Interstit Cell | Hyperplasia | Diffuse, Mild |
| | | Lymphoma Malignant | |

[Atrophy TGLs = 1-00]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 231

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202748

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 2-000]

PRIMARY CAUSE OF DEATH - Heart Myocardium Necrosis

CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Lymphoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 217

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pituitary Gland
- * Spleen
- Testis
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Dysgenesis
- Edema
- Fibrosis
- Focal, Minimal
- Focal, Mild
- Minimal
- Marked
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Minimal
- Mild
- Mild
- Marked
- Moderate
- Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 217

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202749

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 1-00+000]

Bilateral, Interstit Cell

Hyperplasia

Diffuse, Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- [Hypospermia TGLs = 5-15]
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3-6+7]
- * Pancreas
- * Pituitary Gland
- [Adenoma TGLs = 4-17]
- * Seminal Vesicle
- [Decreased Secretory Fluid TGLs = 2-16]
- * Spleen
- Testis
- Bilateral
- Bilateral, Germinal Epith
- Seminif Tub
- Bilateral
- Hyperplasia
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Adenoma
- Adenoma
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Dysgenesis
- Edema
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Mild
- Chronic Active, Minimal
- Minimal
- Marked
- Marked
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202750

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral, Rete Testis

Fibrosis

Moderate

Bilateral, Interstit Cell

Hyperplasia

Diffuse, Mild

Bilateral, Rete Testis

Sperm Granuloma

[Atrophy TGLs = 1-00+000]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 219

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Degeneration | Cystic, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------------|--------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Degeneration | Cystic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| | | Inflammation | Chronic, Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Seminif Tub | Dysgenesis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202752

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 2-00]

Bilateral

Edema

Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 221

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Medulla
- * Epididymis [Hypospermia TGLs = 3-15]
- * Heart
- * Kidney [Nephropathy TGLs = 4,5-8]
- * Liver
- * Lung
- * Mammary Gland [Fibroadenoma TGLs = 1-17]
- * Pancreas [Adenoma TGLs = 6-18]
- * Pituitary Gland
- * Spleen
- Testis [Atrophy TGLs = 2-000]
- Pheochromocytoma Benign
- Hypospermia Marked
- Cardiomyopathy
- Nephropathy Chronicprogr, Moderate
- Clear Cell Focus
- Hepatocyte
- Cytoplasmic Alteration Minimal
- Alveolus
- Infiltration Cellular Histiocyte, Minimal
- Fibroadenoma
- Adenoma
- Hypertrophy Minimal
- Extramedullary Hematopoiesis Mild
- Pigment Minimal
- Atrophy Marked
- Edema Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 221

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202753

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Bilateral, C Cell

Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pituitary Gland
- * Skin
- * Spleen
- Testis
- Hyperplasia
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Infiltration Cellular
- Hyperplasia
- Hypertrophy
- Lipoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Fibrosis
- Hyperplasia
- Focal, Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Minimal
- Minimal
- Mild
- Mild
- Marked
- Moderate
- Diffuse, Minimal

[Atrophy TGLs = 2-000]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
 - [Hypospermia TGLs = 2-15]
- * Heart
- * Kidney
 - [Nephropathy TGLs = 3,4-8]
- * Liver
- * Pancreas
 - [Adenoma TGLs = 5-17]
 - [Hyperplasia TGLs = 6-9]
- * Pituitary Gland
- * Spleen
- Testis
- Hyperplasia
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Hepatocyte
- Acinus
- Acinus
- Pars Distalis
- Pars Distalis
- Adenoma
- Hyperplasia
- Adenoma
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Fibrosis
- Focal, Minimal
- Minimal
- Marked
- Minimal
- Chronicprogr, Moderate
- Minimal
- Marked
- Minimal
- Mild
- Moderate
- Marked
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202755

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 1-00+000]	Interstit Cell Bilateral	Hyperplasia Polyarteritis Nodosa	Focal, Minimal Minimal
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Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 595

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow
- Leukemia
- Erythrocyte
- * Brain
- Hemorrhage
- Moderate
- Leukemia Erythrocytic
- [Hemorrhage TGLs = 4-3+4+5]
- * Epididymis
- Bilateral
- Hypospermia
- Marked
- [Hypospermia TGLs = 3-15]
- * Heart
- Cardiomyopathy
- Minimal
- * Kidney
- Leukemia
- Erythrocyte
- Nephropathy
- Chronicprogr, Minimal
- * Liver
- Leukemia
- Erythrocyte
- * Lung
- Leukemia
- Erythrocyte
- * Lymph Node, Mesenteric
- Leukemia Mononuclear
- * Prostate
- Decreased Secretory Fluid
- * Seminal Vesicle
- Decreased Secretory Fluid
- * Spleen
- Leukemia
- Erythrocyte
- [Leukemia TGLs = 1-17]
- Testis
- Interstitial Cell
- Adenoma
- Bilateral, Germinal Epith
- Atrophy
- Rete Testis
- Fibrosis
- Marked
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 595

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202756

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Focal, Mild

Leukemia

Erythrocyte

Rete Testis

Sperm Granuloma

[Atrophy TGLs = 2-00+000]

PRIMARY CAUSE OF DEATH - Brain Hemorrhage

CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Leukemia

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 225

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-----------------------------|---------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Epididymis | | Hypospermia | Marked |
| [Hypospermia TGLs = 3-15] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Hyperplasia | Marked |
| [Adenoma TGLs = 2-17] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Interstit Cell | Adenoma | |
| | Bilateral, Germinal Epith | Atrophy | Moderate |
| [Atrophy TGLs = 1-00] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 226

TRT#: 9

SEX: Male

DAY ON TEST: 275

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | Bilateral | Hypospermia | Marked |
| | [Hypospermia TGLs = 2-15] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Inflammation | Chronic Active, Mild |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| Peripheral Nerve | Sciatic | Degeneration | Marked |
| * Pituitary Gland | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| | | Inflammation | Chronic, Moderate |
| * Spleen | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | | Edema | Moderate |
| | Interstit Cell | Hyperplasia | Focal, Moderate |
| | [Atrophy TGLs = 1-00] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 226

TRT#: 9

SEX: Male

DAY ON TEST: 275

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202758

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Urothelium

Hyperplasia

Mild

Urothelium

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

- Peripheral Nerve Sciatic Degeneration

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 227

TRT#: 9

SEX: Male

DAY ON TEST: 701

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone Marrow
- * Brain
- * Esophagus
- * Bone
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Eye
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Intestine Large, Rectum
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Islets, Pancreatic
- * Nose
- * Preputial Gland
- * Salivary Glands
- * Mammary Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thyroid Gland
- * Skin
- * Urinary Bladder
- * Trachea

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------|---------------------------|--------------------|
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-11] | | | |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Spleen | | Pigment | Marked |
| Testis | Bilateral, Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Marked |
| [Atrophy TGLs = 1-6] | | | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 228

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|------------------------------|---------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | | Fatty Change | Focal, Minimal |
| | Hepatocyte | Necrosis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Seminif Tub | Dysgenesis | Mild |
| | Interstit Cell | Hyperplasia | Focal, Mild |
| | Bilateral | Polyarteritis Nodosa | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 228

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202760

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 1,2-00+000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 229

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Eye
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Islets, Pancreatic
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Bone Marrow: Hypercellularity (Minimal)
- * Epididymis: Granuloma Sperm (Marked)
[Granuloma Sperm TGLs = 3-15]
- * Heart: Cardiomyopathy (Mild)
- * Kidney: Bilateral, Pelvis; Bilateral (Mild)
Inflammation (Suppurative, Moderate)
Nephropathy (Chronic progr, Marked)
[Dilation TGLs = 8,9-8+20]
- * Pancreas: Acinus; Acinus (Multiple)
Adenoma; Hyperplasia (Marked)
[Adenoma TGLs = 7-19]
- * Prostate: Decreased Secretory Fluid
Inflammation (Chronic Active, Marked)
- * Seminal Vesicle: Decreased Secretory Fluid
Inflammation (Chronic Active, Moderate)
[Inflammation TGLs = 5-16]
- * Spleen: Lymph Follic (Mild)
Atrophy (Minimal)
Extramedullary Hematopoiesis (Minimal)
Pigment (Mild)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 229

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202761

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Germinal Epith	Degeneration	Minimal
* Thyroid Gland	C Cell	Adenoma	
Ureter		Inflammation	Chronic Active, Mild
[Inflammation TGLs = 4-17]			
* Urinary Bladder	Urothelium	Inflammation	Chronic Active, Marked
[Inflammation TGLs = 6-18]			

PRIMARY CAUSE OF DEATH - Urinary Bladder Urothelium Inflammation

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis [Hypospermia TGLs = 6-15]
- * Heart
- * Kidney [Nephropathy TGLs = 2-8]
- * Liver
- * Pituitary Gland
- * Prostate [Decreased Secretory Fluid TGLs = 4-16]
- * Seminal Vesicle [Decreased Secretory Fluid TGLs = 5-16]
- * Skin [Squamous Cell Papilloma TGLs = 1-17]
- * Spleen
- Testis
- Hypertrophy
- Vacuolization Cytoplasmic
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Squamous Cell Papilloma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Mild
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Moderate
- Minimal
- Minimal
- Mild
- Minimal
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202762

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 3-00+000]

Bilateral

Polyarteritis Nodosa

Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Epididymis | Bilateral | Hypospermia | Marked |
| [Hypospermia TGLs = 2-15] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Pelvis | Inflammation | Chronic Active, Mild |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Nose | Goblet Cell | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Stomach, Forestomach | | Ulcer | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202763

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 3-17]

Testis

Interstit Cell

Adenoma

Bilateral, Germinal Epith

Atrophy

Marked

Seminif Tub

Dysgenesis

Mild

Bilateral

Edema

Moderate

Bilateral

Polyarteritis Nodosa

Minimal

[Atrophy TGLs = 1-00+000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 232

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Epididymis [Hypospermia TGLs = 3-15] Hypospermia Marked
- * Heart Cardiomyopathy Minimal
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Pelvis Inflammation Chronic Active, Mild
- * Liver Nephropathy Chronicprogr, Mild
- Hepatocyte Basophilic Focus
- Bile Duct Clear Cell Focus
- * Lung Alveolus Cytoplasmic Alteration Minimal
- Alveolus Hyperplasia Minimal
- * Pituitary Gland Pars Distalis Infiltration Cellular Histiocyte, Mild
- * Preputial Gland Bilateral, Duct Inflammation Chronic, Minimal
- [Dilation TGLs = 1-14] Hypertrophy Minimal
- * Seminal Vesicle Dilation Moderate
- * Spleen Inflammation Chronic Active, Mild
- Testis Bilateral, Germinal Epith Extramedullary Hematopoiesis Mild
- Pigment Moderate
- Atrophy Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 232

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202764

ORGAN AND ACCOUNTABLE SITE STATUS

Bilateral

Edema

Marked

Rete Testis

Fibrosis

Mild

Bilateral, Interstit Cell

Hyperplasia

Diffuse, Mild

Bilateral

Polyarteritis Nodosa

Moderate

[Atrophy TGLs = 2-00]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 233

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|-------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 1-17] | | |
| * Heart | | Cardiomyopathy | Mild |
| | | Hemorrhage | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | | Degeneration | Cystic, Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Marked |

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Epididymis
- * Heart
- * Kidney
- * Liver
- Hepatocyte
- Bile Duct
- * Lung
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- Mesentery
- [Necrosis TGLs = 1-17]
- * Pancreas
- * Pituitary Gland
- Acinus
- Pars Intermed
- Pars Distalis
- * Prostate
- * Seminal Vesicle
- * Spleen
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Inflammation
- Polyarteritis Nodosa
- Infiltration Cellular
- Inflammation
- Necrosis
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Marked
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Chronic Active, Minimal
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202766

ORGAN AND ACCOUNTABLE SITE STATUS

Testis	Bilateral, Germinal Epith	Pigment	Mild
	Seminif Tub	Atrophy	Marked
	Rete Testis	Dysgenesis	Moderate
	Bilateral, Interstit Cell	Fibrosis	Mild
	Bilateral	Hyperplasia	Diffuse, Mild
		Polyarteritis Nodosa	Moderate

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 235

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Pancreas | Acinus | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 236

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
 - [Hypospermia TGLs = 2-15]
- * Heart
- * Kidney
- * Liver
 - [Cholangiofibrosis TGLs = 3-17]
- * Lung
- * Pancreas
- * Pituitary Gland
- * Spleen
- Testis
 - [Atrophy TGLs = 1-000]
- * Thyroid Gland
- Hyperplasia
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Cholangiofibrosis
- Cytoplasmic Alteration
- Granuloma
- Inflammation
- Hyperplasia
- Adenoma
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Edema
- Adenoma
- Focal, Minimal
- Moderate
- Minimal
- Chronicprogr, Moderate
- Moderate
- Minimal
- Minimal
- Chronic, Minimal
- Minimal
- Minimal
- Minimal
- Moderate
- Marked
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 237

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Epididymis
 - [Hypospermia TGLs = 2-15]
- * Heart
- * Kidney
 - [Nephropathy TGLs = 5-8]
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 6-6+7]
- * Pituitary Gland
- * Prostate
- * Seminal Vesicle
 - [Decreased Secretory Fluid TGLs = 4-16]
- * Spleen
- Bilateral
- Hepatocyte
- Alveolus
- Alveolus
- Note: Mast cell infiltrate = mediastinum
- Pars Distalis
- Pleura
- Decreased Secretory Fluid
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Infiltration Cellular
- Decreased Secretory Fluid
- Decreased Secretory Fluid
- Focal, Minimal
- Mild
- Mild
- Minimal
- Chronicprogr, Marked
- Minimal
- Histiocyte, Mild
- Chronic Active, Mild
- Mild
- Mast Cell, Mild
- Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 237

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202769

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Bilateral, Germinal Epith

Atrophy

Marked

Rete Testis

Fibrosis

Mild

Granulosa Cell Tumor Benign

Interstitial Cell

Hyperplasia

Focal, Minimal

[Atrophy TGLs = 3-000]

[Granulosa Cell Tumor Benign TGLs = 1-00]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 238

TRT#: 9

SEX: Male

DAY ON TEST: 519

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------|---------------------------|------------------------|-----------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Spleen | | Pigment | Marked |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Bilateral | Polyarteritis Nodosa | Minimal |

[Atrophy TGLs = 1-00+000]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 239

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|------------------------------|----------------------|
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Marked |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Nose | | Inflammation | Suppurative, Mild |
| | | Osteosarcoma | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Bilateral, Interstit Cell | Hyperplasia | Focal, Mild |
| | Bilateral | Polyarteritis Nodosa | Mild |

[Atrophy TGLs = 1-00+000]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Pancreas
- * Pituitary Gland
- * Spleen
- Testis
- Bilateral
- [Hypospermia TGLs = 2,4-15]
- Hepatocyte
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 5-6+7]
- Acinus
- Pars Distalis
- Pars Distalis
- Bilateral, Germinal Epith
- Hypertrophy
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Degeneration
- Adenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Cystic, Mild
- Multiple
- Minimal
- Minimal
- Mild
- Minimal
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202772

ORGAN AND ACCOUNTABLE SITE STATUS

		Edema	Moderate
	Rete Testis	Fibrosis	Mild
	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
	Bilateral	Polyarteritis Nodosa	Moderate
[Atrophy	TGLs = 1,3-00+000]		

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Spleen
- Testis
- * Thyroid Gland
- Bilateral
- [Hypospermia TGLs = 3,4-15]
- Hepatocyte
- Alveolus
- Acinus
- Pars Distalis
- [Inflammation TGLs = 1-17]
- Bilateral, Germinal Epith
- Bilateral, Seminif Tub
- Bilateral
- Rete Testis
- C Cell
- Hyperplasia
- Hypospermia
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Dysgenesis
- Edema
- Fibrosis
- Adenoma
- Focal, Minimal
- Marked
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Minimal
- Minimal
- Minimal
- Chronic Active, Marked
- Mild
- Mild
- Marked
- Mild
- Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 141

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|------------------|--------------------------------|------------------------------|----------------------|
| * Adrenal Cortex | | Hemorrhage | Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Brain | | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 5-3+4] | | |
| * Epididymis | Bilateral, Duct | Exfoliated Germ Cell | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Dilation | Marked |
| | | Nephroblastoma | |
| | | Nephropathy | Chronicprogr, Marked |
| | [Dilation TGLs = 3-18] | | |
| | [Nephroblastoma TGLs = 2-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| Testis | Bilateral, Germinal Epith | Degeneration | Marked |
| Ureter | | Dilation | Mild |
- Note: TGL4 = cystic dilation of lumen.
[Dilation TGLs = 4-18+19]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 141

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202774

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephroblastoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Focal, Mild
- * Epididymis
 - Bilateral
 - Hypertrophy
 - Focal, Minimal
 - Hypospermia
 - Marked
 - Cardiomyopathy
 - Minimal
 - Nephropathy
 - Chronicprogr, Moderate
- * Kidney
 - [Nephropathy TGLs = 4,5-8]
- * Liver
 - Hepatocyte
 - Cytoplasmic Alteration
 - Minimal
 - Mixed Cell Focus
 - Polyarteritis Nodosa
 - Minimal
 - Infiltration Cellular
 - Histiocyte, Minimal
 - Pancreas
 - Polyarteritis Nodosa
 - Mild
 - Parathyroid Gland
 - Hyperplasia
 - Mild
 - Pituitary Gland
 - Pars Distalis
 - Hypertrophy
 - Minimal
 - Skin
 - [Squamous Cell Papilloma TGLs = 1-17]
 - Squamous Cell Papilloma
 - * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Minimal
 - Atrophy
 - Marked
 - Polyarteritis Nodosa
 - Marked
 - Testis
 - Bilateral, Germinal Epith
 - Bilateral

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202775

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 2,3-00+000]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Vacuolization Cytoplasmic
 - Focal, Minimal
 - Focal, Minimal
 - Focal, Minimal
- * Epididymis
 - [Hypospermia TGLs = 2-15]
 - Bilateral
 - Hypospermia
 - Marked
- * Heart
 - Epicardium
 - Inflammation
 - Chronic, Minimal
- * Kidney
 - Nephropathy
 - Chronicprogr, Mild
- * Liver
 - Clear Cell Focus
 - Hepatocyte
 - Cytoplasmic Alteration
 - Minimal
- * Lung
 - Alveolus
 - Infiltration Cellular
 - Histiocyte, Minimal
 - Alveolus
 - Inflammation
 - Chronic, Minimal
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
 - Marked
 - Pars Distalis
 - Hypertrophy
 - Minimal
- * Seminal Vesicle
 - Lymphoma Malignant
 - Extramedullary Hematopoiesis
 - Minimal
- * Spleen
 - Pigment
 - Moderate
- Testis
 - Bilateral, Germinal Epith
 - Atrophy
 - Marked
 - Edema
 - Marked
- [Atrophy TGLs = 1,3-00+000]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202776

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Lymphoma Malignant

[Lymphoma Malignant TGLs = 4-17]

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Preputial Gland
- * Thymus
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thyroid Gland
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Nose
- * Stomach, Forestomach
- * Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Focal, Minimal
- * Bone Marrow
 - Hypercellularity
 - Moderate
- * Epididymis
 - Bilateral
 - Hypospermia TGLs = 4-15]
 - Hypospermia
 - Marked
- * Heart
 - Cardiomyopathy
 - Minimal
- * Islets, Pancreatic
 - Adenoma
- * Kidney
 - Pelvis
 - Dilation
 - Minimal
 - Nephropathy
 - Chronicprogr, Mild
- * Liver
 - Hepatocyte
 - Cytoplasmic Alteration
 - Minimal
- * Lung
 - Alveolus
 - Infiltration Cellular
 - Histiocyte, Minimal
 - Alveolus
 - Inflammation
 - Chronic, Minimal
 - Fibroadenoma
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-17]
- * Pancreas
 - Acinus
 - Hyperplasia
 - Minimal
- * Pituitary Gland
 - Pars Distalis
 - Hypertrophy
 - Minimal
- * Prostate
 - [Decreased Secretory Fluid TGLs = 5-16]
 - Decreased Secretory Fluid
- * Seminal Vesicle
 - [Decreased Secretory Fluid TGLs = 6-16]
 - Decreased Secretory Fluid

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202777

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis	Hyperplasia	Mild
[Hyperplasia TGLs = 2-18]			
* Spleen		Extramedullary Hematopoiesis	Mild
Testis	Bilateral, Germinal Epith	Atrophy	Marked
		Edema	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
[Atrophy TGLs = 3-00]			

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * 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 | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Epididymis | Bilateral | Hypospermia | Marked |
| | [Hypospermia TGLs = 2-15] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | Lymphoid Tiss | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | | Edema | Moderate |
| | [Atrophy TGLs = 1-00] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202778

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 57

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1202779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Seminal Vesicle

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|---------------|---------------------------|---------------------------|---------------|
| Blood Vessel | | Mineral | Mild |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Epididymis | Bilateral | Hypospermia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Pelvis | Dilation | Mild |
| * Prostate | | Decreased Secretory Fluid | |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | Bilateral, Seminif Tub | Dysgenesis | Minimal |
| | Bilateral, Interstit Cell | Hyperplasia | Diffuse, Mild |

[Atrophy TGLs = 1-00+000]

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 248

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- [Hypospermia TGLs = 3-15]
- * Intestine Large, Cecum
- * Kidney
- * Liver
- * Pancreas
- * Pituitary Gland
- * Skin
- [Ulcer TGLs = 2-17]
- * Spleen
- Testis
- [Atrophy TGLs = 1-00+000]
- Bilateral
- Lymphoid Tiss
- Hepatocyte
- Acinus
- Pars Distalis
- Pars Distalis
- Hypertrophy
- Hypospermia
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Atrophy
- Hyperplasia
- Hypertrophy
- Ulcer
- Extramedullary Hematopoiesis
- Hemangiosarcoma
- Pigment
- Atrophy
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Minimal
- Marked
- Mild
- Minimal
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- * Epididymis Bilateral Hypospermia Marked
- * Heart Cardiomyopathy Minimal
- * Intestine Large, Rectum Parasite Metazoan
- * Kidney Renal Tubule Cyst
- Bilateral Inflammation Suppurative, Mild
- Nephropathy Chronicprogr, Moderate
- [Cyst TGLs = 3-17]
- * Liver Clear Cell Focus
- Hepatocyte Cytoplasmic Alteration Minimal
- Bile Duct Hyperplasia Minimal
- * Lung Alveolus Infiltration Cellular Histiocyte, Mild
- Alveolus Inflammation Chronic, Minimal
- * Pancreas Acinus Adenoma
- * Pituitary Gland Pars Distalis Hyperplasia Mild
- Pars Distalis Hypertrophy Minimal
- * Seminal Vesicle Decreased Secretory Fluid
- [Decreased Secretory Fluid TGLs = 2-16]
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202781

ORGAN AND ACCOUNTABLE SITE STATUS

Testis

Interstit Cell

Adenoma

Bilateral, Germinal Epith

Atrophy

Marked

Bilateral

Polyarteritis Nodosa

Marked

[Atrophy TGLs = 1-00]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 495

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1202782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|--------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Epididymis | Duct | Exfoliated Germ Cell | Marked |
| | Bilateral | Hypospermia | Marked |
| | [Hypospermia TGLs = 3-15] | | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Pituitary Gland | Pars Distalis | Hypertrophy | Minimal |
| * Prostate | | Decreased Secretory Fluid | |
| * Seminal Vesicle | | Decreased Secretory Fluid | |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Testis | Bilateral, Germinal Epith | Atrophy | Marked |
| | [Atrophy TGLs = 2-00+000] | | |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 646

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Transit Epithe
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- Pars Distalis
- Endometrium
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Granuloma
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Metaplasia
- Polyp Stromal
- Focal, Minimal
- Focal, Mild
- Marked
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Mild
- Moderate
- Squamous, Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3-6+7]
- [Neuroendocrine Tumor, Malignant TGLs = 4-6]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2-19+20]
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Extramedullary Hematopoiesis
- Infiltration Cellular
- Inflammation
- Neuroendocrine Tumor, Malignant
- Dilation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Metastatic (Uncertain Primary Site)
- Focal, Mild
- Multiple
- Moderate
- Mild
- Cystic, Moderate
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Ovary | Bursa | Cyst | |
| | Paraovarian | Cyst | |
| | [Cyst TGLs = 1-15] | | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| | [Carcinoma TGLs = 3-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| | [Adenocarcinoma TGLs = 3-19] | | |
| | [Fibroadenoma TGLs = 1-18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 715

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Intestine Large, Cecum

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- Myocardium
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 3-16]
- Pars Distalis
- [Adenoma TGLs = 1-11]
- C Cell
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Atrophy
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Basophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Adenoma
- Focal, Mild
- Focal, Mild
- Moderate
- Minimal
- Minimal
- Schwann Cell, Moderate
- Chronicprogr, Minimal
- Histiocyte, Mild
- Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Brain
- * Esophagus
- * Eye
- * 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
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow
 - * Clitoral Gland [Dilation TGLs = 2-14]
 - * Harderian Gland
 - * Heart
 - * Kidney
 - * Liver
 - * Lung [Infiltration Cellular TGLs = 3-6+7]
 - * Mammary Gland [Fibroadenoma TGLs = 1-17]
 - * Nose
 - * Pituitary Gland
 - * Spleen
 - * Thyroid Gland
 - * Uterus
- | | | | |
|--|---------------|--|--------------------|
| | Duct | Leukemia Granulocytic
Dilation | Marked |
| | | Leukemia Granulocytic
Cardiomyopathy | Minimal |
| | | Leukemia Granulocytic
Nephropathy | Chronicprogr, Mild |
| | Alveolus | Leukemia Granulocytic
Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | | Fibroadenoma | |
| | Goblet Cell | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Minimal |
| | | Leukemia Granulocytic | |
| | C Cell | Hyperplasia | Moderate |
| | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-19+20] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Bile Duct
- Alveolus
- Alveolus
- [Fibroadenoma TGLs = 1,2-18+19]
- C Cell
- Endometrium
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Dilation
- Hyperplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Multiple
- Mild
- Minimal
- Minimal
- Mild
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Colon
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Extramedullary Hematopoiesis
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Inflammation
- Adenocarcinoma
- Hyperplasia
- Infiltration Cellular
- Extramedullary Hematopoiesis
- Hyperplasia
- Minimal
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic Active, Minimal
- Mild
- Mononuclear CI, Minimal
- Moderate
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- [Cyst TGLs = 3,4-19+20]
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-18]
- * Pituitary Gland
- * Thyroid Gland
- * Uterus
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Cyst
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Adenoma
- Hyperplasia
- Metaplasia
- Polyp
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Multiple
- Histiocyte, Moderate
- Chronic, Minimal
- Minimal
- Cystic, Mild
- Squamous, Minimal
- Glandular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Atrophy
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Bile Duct
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-17]
- Pars Distalis
- Endometrium
- Hyperplasia
- Hyperplasia
- Inflammation
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Minimal
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Chronic Active, Minimal
- Histiocyte, Moderate
- Chronic Active, Minimal
- Mild
- Minimal
- Moderate
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Salivary Glands
- * Thymus
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Ovary
- * Skin
- * Trachea
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Forestomach
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Urinary Bladder
- * Uterus
- Alveolus
- Pars Distalis
- C Cell
- Urothelium
- Endometrium
- Endometrium
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Adenocarcinoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Minimal
- Mild
- Mild
- Minimal
- Cystic, Moderate
- Squamous, Mild

[Hyperplasia TGLs = 2-15]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 659

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * 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 | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Intestine Large, Cecum

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Harderian Gland | | Atrophy | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Metaplasia | Squamous, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
- * Heart
- * Kidney
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- * Spleen
- * Thyroid GI
- Note: one thyroid gland = missing
- * Uterus
- Endocardium
- Pars Distalis
- Endometrium
- Hypertrophy
- Vacuolization Cytoplasmic
- Hypercellularity
- Glioma Malignant
- Cardiomyopathy
- Fibrosis
- Nephropathy
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Minimal
- Minimal
- Marked
- Minimal
- Minimal
- Chronicprogr, Minimal
- Mild
- Moderate
- Minimal
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 624

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pancreas
- * Spleen
- * Uterus
- Bile Duct
- Hepatocyte
- Alveolus
- Acinus
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Necrosis
- Infiltration Cellular
- Atrophy
- Extramedullary Hematopoiesis
- Inflammation
- Focal, Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Marked
- Suppurative, Marked

[Infiltration Cellular TGLs = 2-6+7]

[Inflammation TGLs = 1-15]

PRIMARY CAUSE OF DEATH - Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 351

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|--|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * 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 | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Nuclear Alteration | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * 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 |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Clear Cell Focus | |
| | | Cyst | |
| * Lung | Alveolus | Mixed Cell Focus | |
| | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3-6+7] | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-19+20] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Bile Duct
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-19]
- Pars Distalis
- Extramedullary Hematopoiesis
- Pigment
- Endometrium
- Endometrium
- Focal, Mild
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Fibroadenoma
- Adenoma
- Mild
- Marked
- Cystic, Mild
- Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-17]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-11]			
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLs = 3-18]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3,4,5-16+17+18+19] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Metaplasia | Squamous, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 354

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Brain | | Hemorrhage | Mild |
| | Neuron | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Necrosis | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH

- Brain Neuron Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 630

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Extramedullary Hematopoiesis
 - Nuclear Alteration
 - Cystic, Mild
 - Minimal
 - Minimal
- Note: 1 adrenal gland = missing
- * Bone Marrow
 - Hypercellularity
 - Cardiomyopathy
 - Nephropathy
 - Extramedullary Hematopoiesis
 - Infiltration Cellular
 - Fibroadenoma
 - Marked
 - Minimal
 - Chronicprogr, Minimal
 - Minimal
 - Histiocyte, Minimal
- * Liver
- * Lung
 - Alveolus
 - Infiltration Cellular
 - Fibroadenoma
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Spleen
 - Red Pulp
 - Atypia Cellular
 - Extramedullary Hematopoiesis
 - Marked
 - Moderate
- [Extramedullary Hematopoiesis TGLs = 2-17]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | | Infiltration Cellular | Lipocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Thymus | Epithel Cell | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Trachea | Submucosa | Inflammation | Chronic, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 1-17]
- Pars Distalis
- Pars Distalis
- Endometrium
- [Polyp Stromal TGLs = 2-16]
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Polyp Stromal
- Marked
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Moderate
- Minimal
- Moderate
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver |
| * 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

- | | | | |
|-------------------------|---------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-11] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| [Adenoma TGLs = 1-11] | | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2-18+19]
- * Pituitary Gland
- [Adenoma TGLs = 4-20]
- * Spleen
- Bile Duct
- Alveolus
- Alveolus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cyst
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Chronic, Minimal
- Multiple
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 685

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
 - Alveolus
 - [Infiltration Cellular TGLs = 3-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Ovary
 - [Schwannoma Malignant TGLs = 2-17]
- * Pituitary Gland
 - Pars Distalis
 - [Adenoma TGLs = 4-18]
- * Spleen
- * Uterus
 - Endometrium
 - Endometrium
- Hyperplasia
- Metaplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Schwannoma Malignant
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Mild
- Cartilagenous, Mild
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Minimal
- Cystic, Mild
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Ovary Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 640

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Clitoral Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Skin
- * Spleen
- Extramedullary Hematopoiesis
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Dilation
- Fibroadenoma
- Fibrous Histiocytoma
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Focal, Mild
- Moderate
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 662

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Mammary Gland
- [Fibroadenoma TGLs = 2,3,4,5,6-17+18+19+20+21]
- * Skin
- [Schwannoma Malignant TGLs = 1-16]
- * Spleen
- * Thyroid Gland
- C Cell
- Hyperplasia
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Fibroadenoma
- Schwannoma Malignant
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Focal, Moderate
- Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Multiple
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Multiple
- Minimal
- Moderate
- Cystic, Minimal
- Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1,2-17+18]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2-18+19]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 3-20]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 594

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, 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 | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| * Uterus | | Dilation | Marked |
| | | Hemorrhage | Mild |

[Dilation TGLs = 1-15]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 669

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------|--------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Cyst | |
| | [Cyst TGLs = 3-12] | | |
| * Ovary | Follicle | Cyst | |
| | [Cyst TGLs = 2-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-11] | | |
| * Spleen | | Pigment | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 535

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16+17]
- * Pituitary Gland
- * Spleen
- Extramedullary Hematopoiesis
- Hypercellularity
- Nephropathy
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Marked
- Chronicprogr, Minimal
- Mild
- Marked
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 564

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * 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 | * Uterus |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Necrosis | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Bursa | Cyst | |
| | [Cyst TGLs = 2-15] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Mild |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| | [Adenocarcinoma TGLs = 1-17] | | |
| | [Fibroadenoma TGLs = 2-18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 3-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 344

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------|------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-19] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Intestine Large, Colon
- * Kidney
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1-18]
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Trachea
- * Uterus
- Hyperplasia
- Hypertrophy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Alveolus
- Alveolus
- Pars Distalis
- C Cell
- Glands
- Endometrium
- Hyperplasia
- Hypertrophy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Dilation
- Hyperplasia
- Focal, Minimal
- Focal, Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Minimal
- Mild
- Focal, Minimal
- Cystic, Minimal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Necrosis
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Hydronephrosis
 - Nephropathy
- * Liver
 - Adenocarcinoma
- [Adenocarcinoma TGLs = 2-16]
- * Lung
 - Alveolus
 - Alveolus
- [Infiltration Cellular TGLs = 4-6+7]
- * Ovary
 - Lymphoma Malignant
- * Pancreas
 - Adenocarcinoma
 - Lymphoma Malignant
- [Adenocarcinoma TGLs = 1-9]
- * Spleen
 - Adenocarcinoma
 - Lymphoma Malignant
- * Urinary Bladder
 - Lymphoma Malignant
- * Uterus
 - Adenocarcinoma
- [Adenocarcinoma TGLs = 3-17]

PRIMARY CAUSE OF DEATH - Uterus Adenocarcinoma
 CONTRIBUTORY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Vacuolization Cytoplasmic
 - Focal, Mild
 - Focal, Minimal
 - Moderate
- [Vacuolization Cytoplasmic TGLs = 1-18]
- * Intestine Large, Rectum
 - Parasite Metazoan
- * Kidney
 - Nephropathy
 - Chronicprogr, Minimal
- * Liver
 - Clear Cell Focus
- * Lung
 - Bile Duct
 - Cyst
 - Infiltration Cellular
 - Inflammation
 - Histiocyte, Mild
 - Chronic, Mild
- [Infiltration Cellular TGLs = 2-6+7]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- [Adenoma TGLs = 3-19]
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
 - Minimal
 - Moderate
- * Thyroid Gland
 - C Cell
 - Adenoma
- * Uterus
 - Endometrium
 - Hyperplasia
 - Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 302

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Nose
- * Spleen
- * Uterus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Inflammation
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Chronic Active, Mild
- Mild
- Lymphoid, Mild
- Minimal
- Cystic, Minimal
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 588

DOSE: 0 ppm

DISP: Natural Death

HISTO: 1202843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Pituitary Gland
- * Spleen
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- Pars Distalis
- [Extramedullary Hematopoiesis TGLs = 2-8]
- Endometrium
- [Sarcoma Stromal TGLs = 1-16]
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Inflammation
- Necrosis
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Hemorrhage
- Metaplasia
- Sarcoma Stromal
- Marked
- Minimal
- Chronicprogr, Minimal
- Chronic Active, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Marked
- Mild
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Uterus Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Clitoral Gland
 - Note: one clitoral gland = missing
- * Heart
- * Kidney
- * Liver
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
 - Duct
 - [Dilatation TGLs = 1-18]
- * Pituitary Gland
- * Spleen
- * Uterus
 - Pars Distalis
 - Endometrium
 - Endometrium
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Dilatation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Chronic, Mild
- Focal, Moderate
- Moderate
- Mild
- Moderate
- Cystic, Minimal
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 ppm

DISP: Moribund Sacrifice

HISTO: 1202846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Esophagus
- [Atrophy TGLs = 1-6]
- * Heart
- * Kidney
- * Liver
- [Cyst TGLs = 2-16]
- * Lung
- [Inflammation TGLs = 3-6+7]
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Muscularis
- Bile Duct
- Alveolus
- Follicle
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypertrophy
- Atrophy
- Cardiomyopathy
- Hemorrhage
- Nephropathy
- Cyst
- Inflammation
- Cyst
- Hyperplasia
- Pigment
- Hyperplasia
- Hyperplasia
- Focal, Mild
- Focal, Minimal
- Mild
- Mild
- Moderate
- Chronicprogr, Moderate
- Chronic, Minimal
- Moderate
- Marked
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 ppm

DISP: Terminal Sacrifice

HISTO: 1202847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Hyperplasia
 - Hypertrophy
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 2-6+7]
 - Inflammation
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
 - Fibroadenoma
- * Ovary
 - Follicle
 - Cyst
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Uterus
 - Endometrium
 - Endometrium
 - Endometrium
 - Hyperplasia
 - Metaplasia
 - Polyp

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 514

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------------|----------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Clitoral GI | | | |
| Note: One clitoral gland = missing | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Intestine Large, Rectum
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Urinary Bladder
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- Duct
- Pars Distalis
- C Cell
- Urothelium
- Endometrium
- Endometrium
- Hyperplasia
- Hypertrophy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Inflammation
- Dilation
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Focal, Mild
- Minimal
- Moderate
- Minimal
- Cystic, Mild
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 564

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Follicle | Cyst | |
| | [Cyst TGLs = 2-15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * 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 | * Ovary | * Pancreas |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|---------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Hemorrhage | Marked |
| * Harderian Gland | | Atrophy | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1,2,3-16+17+18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-11] | | |
| * Spleen | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Intestine Large, Colon
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- * Spleen
- Alveolus
- Alveolus
- Pars Distalis
- Hypertrophy
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Mild
- Mild
- Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
 - [Hepatocellular Adenoma TGLs = 5-16]
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 7-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1,2,3,4-17+18+19+20]
- * Ovary
 - Follicle
 - [Cyst TGLs = 6-21]
- * Pancreas
- * Pituitary Gland
 - [Adenoma TGLs = 8-11]
- * Spleen
- * Uterus
- Hypertrophy
- Vacuolization Cytoplasmic
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Hyperplasia
- Nephropathy
- Hepatocellular Adenoma
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Minimal
- Mild
- Moderate
- Minimal
- Tubular, Minimal
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Multiple
- Marked
- Minimal
- Minimal
- Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202853

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Metaplasia

Squamous, Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------|------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Mammary Gland | Duct | Dilation | Focal, Moderate |
| | [Fibroadenoma TGLs = 1-16] | Fibroadenoma | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Stomach, Glandular | | Mineral | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | | Cyst | Epithelial |
| | [Cyst TGLs = 2-17] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Hyperplasia | Lymphoid, Mild |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Bone Marrow
 - Hypercellularity
 - Mild
- * Lung
 - Alveolus
 - Infiltration Cellular TGLs = 2-6+7]
 - Inflammation
 - Histiocyte, Moderate
 - Chronic, Mild
 - Alveolus
- * Mammary Gland
 - Duct
 - Dilation
 - Fibroadenoma
 - Focal, Moderate
 - [Dilation TGLs = 4-17]
 - [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
 - [Adenoma TGLs = 3-11]
- * Spleen
 - Extramedullary Hematopoiesis
 - Mild
 - Pigment
 - Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Kidney
 - [Nephropathy TGLs = 2-8]
 - * Lung
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
 - * Nose
 - * Pituitary Gland
 - * Spleen
 - * Stomach, Forestomach
 - * Uterus
 - [Schwannoma Malignant TGLs = 3-17]
- | | |
|--|--|
| <ul style="list-style-type: none"> Alveolus Respirat Epith Respirat Epith Respirat Epith Pars Distalis Endometrium Cervix | <ul style="list-style-type: none"> Vacuolization Cytoplasmic Hypercellularity Hydronephrosis Nephropathy Infiltration Cellular Fibroadenoma Inflammation Metaplasia Ulcer Hyperplasia Extramedullary Hematopoiesis Pigment Mineral Hyperplasia Schwannoma Malignant |
|--|--|

- Minimal
- Marked
- Mild
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Acute, Minimal
- Squamous, Moderate
- Multifocal, Minimal
- Minimal
- Marked
- Minimal
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Uterus Cervix Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- Degeneration
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Cystic, Moderate
- Focal, Mild
- Moderate
- Mild
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Minimal
- Mild
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Lipoma | |
| | | Nephropathy | Chronicprogr, Minimal |
| | [Lipoma TGLs = 2-17] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Harderian Gland | | Atrophy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Angiectasis | Focal, Minimal |
| | | Eosinophilic Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|-----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Hepatocyte | Necrosis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| | | Inflammation | Chronic, Focal, Mild |
| * Skin | | Inflammation | Chronic Active, Marked |
| | | Ulcer | Marked |
| | [Ulcer TGLs = 1-16] | | |
| * Spleen | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 403

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |
| * Uterus | | Dilation | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 400

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

- * Brain
- * Lymph Node, Mesenteric
- * Pancreas
- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- Bile Duct
- Hepatocyte
- * Lym Node Mesen
Note: TGLS=2-NCL
- * Spleen
- [Extramedullary Hematopoiesis
- * Uterus
- Endometrium
- Endometrium
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Angiectasis
- Hyperplasia
- Inflammation
- Necrosis
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Moderate
- Minimal
- Chronicprogr, Moderate
- Focal, Minimal
- Minimal
- Chronic Active, Minimal
- Minimal
- Moderate
- Minimal
- Cystic, Minimal
- Squamous, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Bile Duct
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Minimal
- Mild
- Cystic, Minimal
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 610

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 1,2-16+17]
- Pars Distalis
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Hyperplasia
- Focal, Minimal
- Focal, Minimal
- Marked
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Chronic, Minimal
- Multiple
- Mild
- Minimal
- Minimal
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- Hypertrophy
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Inflammation
- Alveolus
- Alveolus
- Follicle
- Pars Distalis
- Endometrium
- Endometrium
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Focal, Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Mild
- Cystic, Moderate
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * 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

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Moderate |
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Metaplasia | Squamous, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | | Dilation | Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 662

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Harderian Gland | | Atrophy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- [Eosinophilic Focus TGLs = 5-20]
- * Lung
- * Mammary Gland
- [Dilation TGLs = 3-18]
- [Fibroadenoma TGLs = 1,2,4-16+17+19]
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Mixed Cell Focus
- Infiltration Cellular
- Inflammation
- Dilation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Mild
- Moderate
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Chronic, Minimal
- Focal, Moderate
- Multiple
- Minimal
- Mild
- Cystic, Mild
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-17+18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Moderate |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic Active, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 590

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Lung
 - [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Ovary
- * Pituitary Gland
 - [Adenoma TGLs = 3-11]
- * Spleen
- * Stomach, Glandular
 - [Erosion TGLs = 4-9]
- * Uterus
- Alveolus
- Alveolus
- Follicle
- Pars Distalis
- Endometrium
- Endometrium
- Hypertrophy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Erosion
- Hyperplasia
- Metaplasia
- Focal, Mild
- Histiocyte, Moderate
- Chronic, Minimal
- Minimal
- Mild
- Mild
- Cystic, Minimal
- Squamous, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

- | | | | |
|------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 1-16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 2-17] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thymus | | Ectopic Parathyroid Gland | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | | Dilation | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-16+17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 281

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|--------------|-----------------------|---------------------|
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | Lymph Follic | Atrophy | Marked |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Marked
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Inflammation	Chronic, Mild
	[Infiltration Cellular TGLs = 3-6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2-17]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1-16]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Minimal
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Stomach, Glandular
- * Uterus
- Bile Duct
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- Pars Distalis
- Glands
- Endometrium
- Hyperplasia
- Karyomegaly
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Ectasia
- Hyperplasia
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Mild
- Moderate
- Minimal
- Mild
- Minimal
- Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Dilation | Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 494

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Lymphoma Malignant | |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
 - [Hepatocholangiocarcinoma TGLs = 1-16]
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 3-6]
- * Mammary Gland
- * Ovary
- * Parathyroid Gland
- * Pituitary Gland
- * Spleen
- * Uterus
 - Endometrium
 - Endometrium
- Zymbal's Gland
 - [Adenoma TGLs = 2-17]
- Hypertrophy
- Nephropathy
- Hepatocholangiocarcinoma
- Infiltration Cellular
- Inflammation
- Dilation
- Cyst
- Hyperplasia
- Hyperplasia
- Pigment
- Hyperplasia
- Metaplasia
- Adenoma
- Focal, Minimal
- Chronicprogr, Moderate
- Histiocyte, Mild
- Chronic, Minimal
- Focal, Mild
- Mild
- Mild
- Mild
- Cystic, Mild
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Harderian Gland | | Atrophy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal, Mild |
| * Lung | Bile Duct | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
[Hyperplasia TGLs = 5-11]
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
Hepatocyte
[Lymphoma Malignant TGLs = 3-12]
- * Lung
Alveolus
Alveolus
- * Mammary Gland
[Fibroadenoma TGLs = 1-18]
- * Pancreas
- * Spleen
[Lymphoma Malignant TGLs = 2-8]
- * Stomach, Glandular
[Leiomyosarcoma TGLs = 4-16+17]
- * Thyroid Gland
C Cell
- Hyperplasia
- Lymphoma Malignant
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Lymphoma Malignant
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Polyarteritis Nodosa
- Lymphoma Malignant
- Leiomyosarcoma
- Adenoma
- Focal, Mild
- Mild
- Chronicprogr, Mild
- Mild
- Histiocyte, Moderate
- Chronic, Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Focal, Marked |
| | [Adenoma TGLs = 3-11] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Cyst | |
| | Hepatocyte | Necrosis | Minimal |
| | [Cyst TGLs = 2-17] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 4-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-18] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | | Dilation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|---|-------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Marked |
| | | Hypertrophy | Focal, Marked |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 4-11] | | |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Cyst | |
| | | Nephropathy | Chronicprogr, Mild |
| | [Cyst TGLs = 7-20] | | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Moderate |
| | [Infiltration Cellular TGLs = 5-6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | |
| | | Myoepithelioma | |
| | [Adenocarcinoma TGLs = 3-18] | | |
| | [Fibroadenoma TGLs = 2-17] | | |
| | [Myoepithelioma TGLs = 1-16] | | |
| * Ovary | Bursa | Cyst | |
| * Pancreas | Acinus | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202890

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Extramedullary Hematopoiesis

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Endometrium

Metaplasia

Squamous, Mild

Polyp Stromal

[Polyp Stromal TGLs = 6-19]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | | |

MISSING

- * Urinary Bladder

OBSERVATIONS

- | | | | |
|------------------------|---|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | Bilateral | Hyperplasia | Mild |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 5-6+7] | | |
| * Mammary Gland | | Adenoma | |
| | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-16+17+18+19] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| * Uterus | | Dilation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 594

DOSE: 300 ppm

DISP: Natural Death

HISTO: 1202892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Karyomegaly
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - Basophilic Focus
- * Lung
 - Hepatocyte
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 4-6+7]
- * Mammary Gland
 - Fibroadenoma
 - [Fibroadenoma TGLs = 1,2-16+17]
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Stomach, Glandular
 - Erosion
 - [Erosion TGLs = 3-18]
- * Uterus
 - Endometrium
 - Metaplasia

- Focal, Minimal
- Focal, Minimal
- Minimal
- Moderate
- Minimal
- Chronicprogr, Mild
- Mild
- Histiocyte, Moderate
- Chronic, Mild
- Multiple
- Mild
- Minimal
- Mild
- Squamous, Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Duodenum | Epithelium | Necrosis | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Mammary Gland | | Adenocarcinoma | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 466

DOSE: 300 ppm

DISP: Moribund Sacrifice

HISTO: 1202894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Kidney Nephropathy Chronicprogr, Minimal
- * Lung Alveolus Infiltration Cellular Histiocyte, Moderate
- Alveolus Inflammation Chronic, Mild
- [Infiltration Cellular TGLs = 2-6+7] Neural Crest Tumor Metastatic (Skin)
- * Skin Neural Crest Tumor
- [Neural Crest Tumor TGLs = 1-16]
- * Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild

PRIMARY CAUSE OF DEATH - Skin Neural Crest Tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 1,2-16+17]
- C Cell
- Endometrium
- Endometrium
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hemorrhage
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Pigment
- Hyperplasia
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Focal, Minimal
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Multiple
- Minimal
- Mild
- Cystic, Marked
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

- | | | | |
|-------------------|---------------|-----------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm

DISP: Terminal Sacrifice

HISTO: 1202897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Urinary Bladder
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 1,2-16+17]
- Pars Distalis
- C Cell
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Inflammation
- Focal, Mild
- Focal, Mild
- Moderate
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Multiple
- Marked
- Minimal
- Minimal
- Acute, Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 564

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland
- * Thyroid Gland

OBSERVATIONS

- * Bone Marrow
- Hypercellularity
- Marked
- * Heart
- Cardiomyopathy
- Minimal
- * Kidney
- Nephropathy
- Chronicprogr, Minimal
- * Liver
- Hepatodiaphragmatic Nodule
- [Hepatodiaphragmatic Nodule TGLs = 2,3-16]
- * Lung
- Alveolar Epith
- Hyperplasia
- Minimal
- Alveolus
- Infiltration Cellular
- Histiocyte, Minimal
- * Skin
- Subcut Tiss
- Fibrosarcoma
- [Fibrosarcoma TGLs = 1-17]
- * Spleen
- Extramedullary Hematopoiesis
- Minimal
- * Uterus
- Endometrium
- Hyperplasia
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Salivary Glands
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Lung
- * Thyroid Gland
- * Bone
- * Eye
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Trachea
- * Brain
- * Harderian Gland
- * Intestine Small, Ileum
- * Nose
- * Urinary Bladder

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lymph Node, Mesenteric
- * Mammary Gland
- [Galactocoele TGLs = 1-17]
- * Ovary
- [Cyst TGLs = 8-15]
- * Pancreas
- * Pituitary Gland
- [Adenoma TGLs = 9-11]
- * Skin
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Parasite Metazoan
- Adenoma
- Lymphoma Malignant
- Nephropathy
- Lymphoma Malignant
- Lymphoma Malignant
- Duct
- Galactocoele
- Inflammation
- Follicle
- Cyst
- Lymphoma Malignant
- Lymphoma Malignant
- Adenoma
- Lymphoma Malignant
- Pars Distalis
- Epidermis
- Hyperplasia
- Inflammation
- Ulcer
- Chronicprogr, Minimal
- Mild
- Chronic, Mild
- Mild
- Chronic Active, Mild
- Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202899

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 4,5,6,7-18+19+20+21]

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 2,3-8+16]

* Stomach, Forestomach

Lymphoma Malignant

* Stomach, Glandular

Lymphoma Malignant

* Thymus

Lymphoma Malignant

* Uterus

Endometrium

Metaplasia

Squamous, Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Inflammation	Chronic, Minimal
	[Infiltration Cellular TGLs = 2-6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Heart
 - * Kidney
 - * Lung
 - * Mammary Gland
 - * Pituitary Gland
 - * Skin
 - * Spleen
 - * Thyroid Gland
 - * Uterus
 - Alveolus
 - Duct
 - Pars Distalis
 - Subcut Tiss
 - C Cell
 - Cervix, Myometrium
 - Endometrium
 - Hyperplasia
 - Hypertrophy
 - Hypercellularity
 - Cardiomyopathy
 - Nephropathy
 - Infiltration Cellular
 - Dilation
 - Fibroadenoma
 - Inflammation
 - Hyperplasia
 - Fibrosarcoma
 - Pigment
 - Hyperplasia
 - Hyperplasia
 - Metaplasia
 - Polyp Stromal
 - Focal, Mild
 - Focal, Minimal
 - Moderate
 - Minimal
 - Chronicprogr, Mild
 - Histiocyte, Minimal
 - Focal, Minimal
 - Chronic, Minimal
 - Marked
 - Mild
 - Moderate
 - Moderate
 - Squamous, Marked
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 2-17]
- [Fibrosarcoma TGLs = 1-16]
- [Hyperplasia TGLs = 4-18]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - [Hyperplasia TGLs = 2-11]
 - * Heart
 - * Kidney
 - * Liver
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1-17]
 - * Ovary
 - [Cyst TGLs = 3-15]
 - * Spleen
 - * Uterus
- | | | |
|--|------------------------------|--------------------|
| | Hyperplasia | Focal, Mild |
| | Hypertrophy | Focal, Mild |
| | Cardiomyopathy | Minimal |
| | Nephropathy | Chronicprogr, Mild |
| | Clear Cell Focus | |
| | Eosinophilic Focus | |
| | Dilation | Focal, Mild |
| | Fibroadenoma | |
| | Cyst | |
| | Inflammation | Chronic, Mild |
| | Extramedullary Hematopoiesis | Minimal |
| | Pigment | Mild |
| | Hyperplasia | Cystic, Mild |
| | Metaplasia | Squamous, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 625

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|--------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Bursa | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
- * Bone Marrow
 - Hypercellularity
- * Harderian Gland
 - Atrophy
- * Kidney
 - Nephropathy
- * Liver
 - Eosinophilic Focus
 - Hepatocyte
 - Hypertrophy
 - Inflammation
- * Lung
 - Hepatocyte
 - Necrosis
 - Alveolar Epith
 - Hyperplasia
 - Alveolus
 - Infiltration Cellular
 - Inflammation
- * Mammary Gland
 - [Infiltration Cellular TGLs = 5-6+7]
 - Duct
 - Adenocarcinoma
 - Dilation
 - Fibroadenoma
- * Spleen
 - [Adenocarcinoma TGLs = 1-16]
 - [Fibroadenoma TGLs = 2-17]
 - Extramedullary Hematopoiesis
- * Thyroid Gland
 - C Cell
 - Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202904

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Mammary Gland Adenocarcinoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

- | | | | |
|------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Eosinophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 2-12] | | |
| * Ovary | Rete Ovarii | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Subcut Tiss | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 351

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Lung
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- Skeletal Muscle
- [Sarcoma TGLs = 1-16]
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Sarcoma
- Focal, Mild
- Moderate
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Chronic, Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 448

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------------|----------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH

- Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 610

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| | | Karyomegaly | Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 4-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3-16+17+18] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 290

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|---------------------------|---------------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - Basophilic Focus
 - Clear Cell Focus
 - Mixed Cell Focus
- * Lung
 - Alveolus
 - Infiltration Cellular TGLs = 4-6+7
 - Alveolus
 - Inflammation
- * Mammary Gland
 - Duct
 - Adenoma
 - Dilation
 - Fibroadenoma
 - Hyperplasia
 - Epithelium
 - Adenoma
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- * Spleen
 - Pigment
- * Uterus
 - Endometrium
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| | | Karyomegaly | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | [Infiltration Cellular TGLs = 2-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Marked |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------------|--|------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| | | Fibroadenoma | Multiple |
| | Epithelium | Hyperplasia | Moderate |
| | | | |
| | [Dilation TGLs = 4-19] | | |
| | [Fibroadenoma TGLs = 1,2,3-16+17+18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-11] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|-----------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Spleen | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 08/20/2019
Time Report Requested: 12:03:41
First Dose M/F: 08/30/10 / 08/31/10
Lab: BAT

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 524

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Necrosis	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Inflammation	Chronic, Mild
	[Infiltration Cellular TGLs = 4-6+7]		
* Ovary		Tubulostromal Carcinoma	
	[Tubulostromal Carcinoma TGLs = 2-15]		
* Pancreas		Tubulostromal Carcinoma	Metastatic (Ovary)
	[Tubulostromal Carcinoma TGLs = 5-17]		
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Moderate
* Uterus	Endometrium	Metaplasia	Squamous, Moderate
		Tubulostromal Carcinoma	Metastatic (Ovary)
	[Tubulostromal Carcinoma TGLs = 1-16]		

PRIMARY CAUSE OF DEATH - Ovary Tubulostromal Carcinoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 570

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Focal, Moderate
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Atrophy
- Pigment
- Mild
- Moderate

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- Pars Distalis
- Endometrium
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Dilation
- Hyperplasia
- Focal, Mild
- Focal, Moderate
- Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Minimal
- Moderate
- Moderate
- Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Lung
- * Mammary Gland
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Fibroadenoma TGLs = 1-16]
- Follicle
- Pars Distalis
- Endometrium
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Adenoma
- Hyperplasia
- Pigment
- Hyperplasia
- Polyp Stromal
- Thrombus
- Focal, Minimal
- Focal, Mild
- Mild
- Chronicprogr, Moderate
- Histiocyte, Mild
- Chronic, Mild
- Lymphoid, Mild
- Mild
- Cystic, Mild
- Marked
- [Thrombus TGLs = 2-15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Medulla
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- Bile Duct
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- Alveolus
- Pars Distalis
- Hyperplasia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Mild
- Chronicprogr, Mild
- Mild
- Histiocyte, Mild
- Minimal
- Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-16+17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------|---------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Calculus Micro Observation Only | |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-16+17] | | |
| * Spleen | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 662

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Bile Duct | Cyst | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 597

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Karyomegaly | Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Dilation | Mild |
| | | Nephropathy | Chronicprogr, Mild |
| | [Dilation TGLs = 3-8] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| * Nose | Respirat Epith | Inflammation | Chronic Active, Minimal |
| | Respirat Epith | Ulcer | Multifocal, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| Vagina | | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 1-16] | | |

PRIMARY CAUSE OF DEATH - Vagina Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- Pars Distalis
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Focal, Minimal
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Chronic, Mild
- Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Harderian Gland
- * Kidney
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 4-6+7]
- [Fibroadenoma TGLs = 2,3-16+17]
- Pars Distalis
- Lymph Follic
- C Cell
- [Polyp Stromal TGLs = 1-15]
- Degeneration
- Hypertrophy
- Hypercellularity
- Atrophy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Atrophy
- Pigment
- Adenoma
- Polyp Stromal
- Cystic, Mild
- Focal, Minimal
- Mild
- Mild
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Multiple
- Moderate
- Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 543

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|---------------------------|--------------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Adrenal Medulla | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Intestine Large, Rectum | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 1-16] | | |
| * Ovary | Bursa | Cyst | |
| | [Cyst TGLs = 2-15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 692

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 1-16] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | Alveolus | | |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Pituitary Gland | | Adenoma | |
| | Pars Distalis | | |
| | [Adenoma TGLs = 3-11] | | |
| * Spleen | | Atrophy | Mild |
| | Lymph Follic | Pigment | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 309

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Bone Marrow
- * Kidney
- [Nephroblastoma TGLs = 1-16]
- * Lung
- * Spleen
- * Uterus
- Hypercellularity
- Hydronephrosis
- Nephroblastoma
- Nephropathy
- Infiltration Cellular
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Moderate
- Cystic, Moderate
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephroblastoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 393

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 719

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Lymphoma Malignant
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Mild
- Chronicprogr, Minimal
- Mild
- Histiocyte, Moderate
- Chronic, Mild
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 512

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Mammary Gland
[Fibroadenoma TGLs = 1-16]
- * Spleen
- * Thyroid Gland
- Hyperplasia
- Hypercellularity
- Nephropathy
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Focal, Mild
- Marked
- Chronicprogr, Mild
- Mild
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Liver | | Fatty Change | Multifocal, Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| | [Hyperplasia TGLs = 1-12] | | |
| * Mammary Gland | | Fibroadenoma | |
| | Epithelium | Hyperplasia | Lobular, Focal, Moderate |
| | [Hyperplasia TGLs = 2-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Extramedullary Hematopoiesis | Minimal |
| * Lung | Bile Duct | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | Epithelium | Hyperplasia | Mild |
| | [Adenocarcinoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Distalis | Karyomegaly | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Inflammation	Chronic, Mild
	[Infiltration Cellular TGLs = 2-6+7]		
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-16]		
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | | Mixed Cell Focus | |
| | [Hepatocellular Adenoma TGLs = 1-16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 351

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Bone Marrow
 - * Heart
 - * Liver
 - * Mammary Gland
 - [Adenocarcinoma TGLs = 1-16]
 - * Spleen
 - [Lymphoma Malignant TGLs = 2-17]
- Lymphoma Malignant
- Cardiomyopathy
- Mild
- Lymphoma Malignant
- Adenocarcinoma
- Lymphoma Malignant

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Lymphoma Malignant

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 491

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * 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

- | | | | |
|----------|--|-----------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Spleen | | Pigment | Minimal |
| * Uterus | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 1-15] | | |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Cardiomyopathy
 - Nephropathy
 - Clear Cell Focus
 - Infiltration Cellular
 - Inflammation
 - Cystic, Mild
 - Focal, Mild
 - Focal, Minimal
 - Mild
 - Chronicprogr, Mild
- * Heart
- * Kidney
- * Liver
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 1-6+7]
 - Histiocyte, Moderate
 - Chronic Active, Moderate
- * Pituitary Gland
 - Pars Distalis
 - Angiectasis
 - Hyperplasia
 - Extramedullary Hematopoiesis
 - Pigment
 - Moderate
 - Mild
 - Minimal
 - Mild
- * Spleen
- * Thyroid Gland
- * Uterus
 - C Cell
 - Endometrium
 - Endometrium
 - Adenoma
 - Hyperplasia
 - Metaplasia
 - Polyp Stromal
 - Cystic, Minimal
 - Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Mammary Gland
- * Pituitary Gland
- [Adenoma TGLs = 2-11]
- * Spleen
- * Thyroid Gland
- Bile Duct
- Alveolus
- Alveolus
- Pars Distalis
- C Cell
- Hypertrophy
- Karyomegaly
- Cardiomyopathy
- Nephropathy
- Cyst
- Infiltration Cellular
- Inflammation
- Adenocarcinoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Moderate
- Chronic, Mild
- Minimal
- Minimal
- Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Moderate |
| | | Mineral | Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Metaplasia | Squamous, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1000 ppm

DISP: Terminal Sacrifice

HISTO: 1202945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | Subcut Tiss | Lipoma | |
| | [Lipoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 1000 ppm

DISP: Natural Death

HISTO: 1202946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hemorrhage
 - Cardiomyopathy
 - Nephropathy
 - Hyperplasia
 - Infiltration Cellular
 - Cystic, Mild
 - Focal, Minimal
 - Mild
 - Mild
 - Chronicprogr, Moderate
- * Liver
 - Bile Duct
 - Hyperplasia
- * Lung
 - Alveolus
 - Infiltration Cellular TGLs = 1-6+7]
 - Histiocyte, Moderate
- * Mammary Gland
 - Duct
 - Dilation
- * Nose
 - Inflammation
 - Ulcer
 - Multifocal, Minimal
- * Pituitary Gland
 - Respirat Epith
 - Pars Distalis
 - Adenoma
 - [Adenoma TGLs = 2-16]
- * Spleen
 - Pigment
 - Marked
- * Uterus
 - Endometrium
 - Hyperplasia
 - Endometrium
 - Metaplasia
 - Squamous, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 591

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Thyroid Gland
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Skin
- * Urinary Bladder
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Ovary
- * Thymus
- * Uterus

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Hypercellularity
 - Cardiomyopathy
 - Nephropathy
 - Cystic, Mild
 - Focal, Minimal
 - Focal, Moderate
 - Moderate
 - Moderate
 - Chronicprogr, Marked
- * Bone Marrow
 - Infiltration Cellular
 - Inflammation
 - Histiocyte, Marked
 - Chronic, Mild
- * Heart
 - Dilation
 - Fibroadenoma
 - Focal, Moderate
- * Kidney
 - [Nephropathy TGLs = 3-8]
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 4-6+7]
- * Mammary Gland
 - Duct
 - [Dilation TGLs = 2-17]
 - [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
 - Minimal
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
 - Mild
- * Stomach, Forestomach
 - Epithelium
 - Hyperplasia
 - Focal, Moderate
- * Stomach, Glandular
 - Inflammation
 - Inflammation
 - Chronic Active, Focal, Mild
 - Chronic Active, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 591

DOSE: 1000 ppm

DISP: Moribund Sacrifice

HISTO: 1202947

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 501

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|----------|------------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| * Bone Marrow | | Hypercellularity | Moderate |
| * Eye | | | |
| Note: optic nerve = missing | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 402

TRT#: 8

SEX: Female

DAY ON TEST: 712

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Harderian Gland
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Hemorrhage
- Hypertrophy
- Hypercellularity
- Atrophy
- Nephropathy
- Pigment
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Karyomegaly
- Extramedullary Hematopoiesis
- Pigment
- Metaplasia
- Polyp Stromal
- Moderate
- Focal, Mild
- Moderate
- Minimal
- Chronicprogr, Mild
- Mild
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Minimal
- Minimal
- Mild
- Minimal
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- Hyperplasia
- Hypertrophy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Focal, Minimal
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 404

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Kidney
 - * Liver
 - * Lung
 - * Pituitary Gland
 - * Spleen
 - * Uterus
 - Hyperplasia
 - Hypertrophy
 - Hypercellularity
 - Nephropathy
 - Clear Cell Focus
 - Cyst
 - Infiltration Cellular
 - Inflammation
 - Hyperplasia
 - Extramedullary Hematopoiesis
 - Pigment
 - Hyperplasia
 - Metaplasia
 - Polyp Stromal
 - Focal, Minimal
 - Focal, Mild
 - Minimal
 - Chronicprogr, Mild
 - Histiocyte, Mild
 - Chronic, Mild
 - Mild
 - Mild
 - Minimal
 - Cystic, Mild
 - Squamous, Minimal
- [Infiltration Cellular TGLs = 2-6+7]
- [Polyp Stromal TGLs = 1-15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 406

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Liver
- * Pancreas
- * Stomach, Glandular
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Thymus
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Skin
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Ovary
- * Stomach, Forestomach
- * Urinary Bladder

MISSING

- * Lymph Node, Mandibular
- * Salivary Glands

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hypertrophy
- * Intestine Large, Rectum
 - Parasite Metazoan
- * Kidney
 - Nephropathy
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 3-6+7]
 - Infiltration Cellular
 - Inflammation
- * Mammary Gland
 - Duct
 - [Dilation TGLs = 1-16]
 - Dilation
- * Pituitary Gland
 - Pars Distalis
 - [Hyperplasia TGLs = 4-11]
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Thyroid Gland
 - C Cell
 - [Adenoma TGLs = 2-17]
 - Adenoma
- * Uterus
 - Endometrium
 - Endometrium
 - Hyperplasia
 - Metaplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 407

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
- * Bone Marrow
 - Hypercellularity
- * Intestine Large, Rectum
 - Parasite Metazoan
- * Intestine Small, Jejunum
 - Leiomyoma
- * Kidney
 - [Leiomyoma TGLs = 8-23]
- * Lung
 - Nephropathy
 - Alveolus
 - Infiltration Cellular
- Lymph Node
 - Alveolus
 - Inflammation
- * Mammary Gland
 - Lumbar
 - Squamous Cell Carcinoma TGLs = 7-22]
 - Fibroadenoma
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Thyroid Gland
 - C Cell
 - Adenoma
- * Uterus
 - Squamous Cell Carcinoma TGLs = 5,6-17+21]
- Vagina
 - [Squamous Cell Carcinoma TGLs = 4-16]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 483

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Bone Marrow
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- Hepatocyte
- Alveolus
- Alveolus
- Hypercellularity
- Atrophy
- Cardiomyopathy
- Nephropathy
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Moderate
- Minimal
- Minimal
- Chronicprogr, Minimal
- Mild
- Histiocyte, Mild
- Chronic, Minimal
- Moderate
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 721

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------|-------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Nose | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |

MISSING

- | | | | |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Clitoral Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Skin |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|----------------------------|---------------|------------------------------|---------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | | |
| Note: one kidney = missing | | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 326

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Nose | Goblet Cell, Respirat Epith | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Hyperplasia | Lymphoid, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 411

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-16] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * 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

- | | | | |
|------------------|-------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| * Uterus | Endometrium | Metaplasia | Squamous, Marked |
| | | Squamous Cell Papilloma | |

[Squamous Cell Papilloma TGLs = 1-16]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 413

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|--|------------------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 543

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- [Hypertrophy TGLs = 2-12]
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Parathyroid Gland
- * Spleen
- Centrilobular, Hepatocyte
- Alveolus
- Hyperplasia
- Hypercellularity
- Nephropathy
- Congestion
- Hypertrophy
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Hyperplasia
- Focal, Minimal
- Marked
- Chronicprogr, Minimal
- Mild
- Minimal
- Histiocyte, Minimal
- Moderate
- Minimal
- Lymphoid, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------------|--|------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Clear Cell Focus | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2-16+17] | | | |
| * Spleen | | Pigment | Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Mixed Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Chronic, Minimal
- Multiple
- Minimal
- Mild
- Cystic, Moderate
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--|---------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Fatty Change | Focal, Minimal |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Follicle | Cyst | |
| | [Cyst TGLs = 2-15] | | |
| * Spleen | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 418

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- Bile Duct
- [Eosinophilic Focus TGLs = 3-17]
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- [Adenoma TGLs = 4-18]
- * Spleen
- * Uterus
- Alveolus
- Alveolus
- Pars Distalis
- Endometrium
- Endometrium
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cyst
- Eosinophilic Focus
- Fatty Change
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Mild
- Mild
- Minimal
- Chronicprogr, Mild
- Focal, Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Mild
- Minimal
- Cystic, Minimal
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Moderate |
| | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Islets, Pancreatic
- [Histiocytic Sarcoma TGLs = 4-19]
- * Kidney
- [Histiocytic Sarcoma TGLs = 3-16]
- * Liver
- [Cholangioma TGLs = 5-20]
- * Lung
- Alveolus
- [Infiltration Cellular TGLs = 8-6+7]
- Lymph Node
- [Histiocytic Sarcoma TGLs = 6-21]
- * Lymph Node, Mesenteric
- [Histiocytic Sarcoma TGLs = 7-22]
- Mesentery
- * Ovary
- * Pancreas
- * Pituitary Gland
- * Spleen
- Pars Distalis
- Hyperplasia
- Cardiomyopathy
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Nephropathy
- Cholangioma
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Infiltration Cellular
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Histiocytic Sarcoma
- Adenoma
- Extramedullary Hematopoiesis
- Focal, Minimal
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202967

ORGAN AND ACCOUNTABLE SITE STATUS

Histiocytic Sarcoma

Pigment

Mild

Note: capsule = histiocytic sarcoma

* Uterus

Sarcoma Stromal

Schwannoma Malignant

[Sarcoma Stromal TGLs = 1,9,10-17+23+24]

Vagina

Schwannoma Malignant

[Schwannoma Malignant TGLs = 2-18]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 1-16]	Polyp Stromal	

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|------------------|------------------------------|-----------------------|
| * Adrenal Cortex | Hyperplasia | Focal, Minimal |
| | Hypertrophy | Focal, Minimal |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Focal, Minimal |
| | Mixed Cell Focus | |
| * Spleen | Extramedullary Hematopoiesis | Minimal |
| | Pigment | Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 388

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--------------|------------------|----------------------|
| * Brain | | Glioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Minimal |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Pigment | Moderate |

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Kidney
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Pituitary Gland
- [Hyperplasia TGLs = 2-11]
- * Spleen
- * Thyroid Gland
- * Uterus
- Nephropathy
- Infiltration Cellular
- Inflammation
- Alveolus
- Alveolus
- Pars Distalis
- C Cell
- Hyperplasia
- Hyperplasia
- Polyp Stromal
- Extramedullary Hematopoiesis
- Pigment
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Marked
- Minimal
- Mild
- Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Karyomegaly | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 5-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| | | Fibroadenoma | |
| | [Dilation TGLs = 3-18] | | |
| | [Fibroadenoma TGLs = 2-17] | | |
| * Pancreas | Acinus | Atypia Cellular | Mild |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 1-16] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Minimal |
| | [Hyperplasia TGLs = 4-19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 501

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Nose | Respirat Epith, Submucosa | Inflammation | Chronic Active, Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 361

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Extramedullary Hematopoiesis	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLs = 2-17]			
* Lymph Node, Mesenteric		Schwannoma Malignant	Metastatic (Uterus)
[Schwannoma Malignant TGLs = 3-18]			
* Spleen		Extramedullary Hematopoiesis	Moderate
[Extramedullary Hematopoiesis TGLs = 4-8]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[Schwannoma Malignant TGLs = 1-16]		Schwannoma Malignant	

PRIMARY CAUSE OF DEATH - Uterus Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
 - [Fibroadenoma TGLs = 1,2-16+17]
- * Nose
- * Pituitary Gland
 - [Adenoma TGLs = 3-18]
- * Spleen
- * Thyroid Gland
 - [Adenoma TGLs = 5-20]
- * Uterus
 - [Hyperplasia TGLs = 4-19]
- Alveolus
- Pars Distalis
- Pars Distalis
- C Cell
- Cervix, Myometrium
- Endometrium
- Endometrium
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Mixed Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Inflammation
- Adenoma
- Hypertrophy
- Pigment
- Adenoma
- Hyperplasia
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Multiple
- Suppurative, Minimal
- Minimal
- Minimal
- Marked
- Cystic, Mild
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 533

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- Lymph Node
 - [Hyperplasia TGLs = 2-17]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Spleen
- * Uterus
- Lumbar
- Endometrium
- Endometrium
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Fibroadenoma
- Extramedullary Hematopoiesis
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Marked
- Minimal
- Plasma Cell, Moderate
- Moderate
- Cystic, Minimal
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Mild |
| * Bone Marrow | | Hypercellularity | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-17] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-11] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------|--|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-16+17] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * 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 | * Uterus |

OBSERVATIONS

- | | | | |
|------------------|------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| | | Karyomegaly | Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Follicle | Cyst | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Kidney
 - * Liver
 - * Lung
 - * Spleen
 - * Uterus
 - Nephropathy
 - Clear Cell Focus
 - Mixed Cell Focus
 - Polyarteritis Nodosa
 - Infiltration Cellular
 - Inflammation
 - Extramedullary Hematopoiesis
 - Pigment
 - Hyperplasia
 - Metaplasia
 - Chronicprogr, Minimal
 - Minimal
 - Histiocyte, Mild
 - Chronic, Mild
 - Minimal
 - Moderate
 - Cystic, Mild
 - Squamous, Mild
- [Infiltration Cellular TGLs = 1-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Bile Duct
- Alveolus
- Alveolus
- Duct
- Bursa
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypertrophy
- Nephropathy
- Fatty Change
- Hyperplasia
- Inflammation
- Mixed Cell Focus
- Infiltration Cellular
- Inflammation
- Dilation
- Fibroadenoma
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Inflammation
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Chronicprogr, Minimal
- Focal, Minimal
- Minimal
- Chronic Active, Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Focal, Moderate
- Minimal
- Minimal
- Mild
- Chronic Active, Marked
- Squamous, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Degeneration | Cystic, Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| * Uterus | | Dilation | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Polyarteritis Nodosa | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| Lymph Node | Mediastinal | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 2-17] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
- * Bone Marrow
 - Hypercellularity
- * Kidney
 - Nephropathy
- * Liver
 - Bile Duct
 - Cyst
 - Hepatodiaphragmatic Nodule
 - Mixed Cell Focus
- * Lung
 - [Hepatodiaphragmatic Nodule TGLs = 4-16]
 - Alveolus
 - Alveolus
 - Infiltration Cellular
 - Inflammation
 - Fibroadenoma
- * Mammary Gland
 - [Fibroadenoma TGLs = 1,2,3-17+18+19]
- * Ovary
 - Follicle
 - Cyst
- * Spleen
 - [Cyst TGLs = 5-20]
 - Extramedullary Hematopoiesis
 - Pigment

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Necrosis
- * Heart
 - Cardiomyopathy
- * Intestine Small, Jejunum
 - [Leiomyoma TGLs = 2-16]
- * Islets, Pancreatic
- * Kidney
 - Adenoma
- * Lung
 - Alveolus
 - Nephropathy
 - Alveolus
 - Infiltration Cellular
 - Inflammation
 - [Infiltration Cellular TGLs = 1-6+7]
- * Pancreas
 - Polyarteritis Nodosa
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Uterus
 - Endometrium
 - Hyperplasia
 - Endometrium
 - Metaplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Bile Duct | Cyst | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Dilation | Mild |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 631

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Lymph Node, Mandibular
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- * Uterus
- Adenoma
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Extramedullary Hematopoiesis
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Mild
- Lymphoid, Mild
- Mild
- Minimal
- Cystic, Mild
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 629

DOSE: 3000 ppm

DISP: Natural Death

HISTO: 1202991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- * Uterus
- Hemorrhage
- Necrosis
- Cardiomyopathy
- Nephropathy
- Histiocytic Sarcoma
- Bile Duct
- Alveolus
- Alveolus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Histiocytic Sarcoma
- Endometrium
- Metaplasia
- Moderate
- Moderate
- Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Mild
- Squamous, Minimal

[Fibroadenoma TGLs = 2-17]

[Histiocytic Sarcoma TGLs = 1-16]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- [Cyst TGLs = 1-16]
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Joint
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hypertrophy
- Inflammation
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Cyst
- Fatty Change
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Adenomyosis
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Chronic, Minimal
- Minimal
- Chronicprogr, Minimal
- Focal, Minimal
- Minimal
- Minimal
- Moderate
- Mild
- Mild
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------|--|-----------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-18+19] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-11] | | |
| * Spleen | | Pigment | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 610

DOSE: 3000 ppm

DISP: Moribund Sacrifice

HISTO: 1202994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- Hepatocyte
- [Angiectasis TGLs = 4,3-17]
- [Hepatocellular Carcinoma TGLs = 4-18]
- * Lung
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Angiectasis
- Cytoplasmic Alteration
- Hepatocellular Carcinoma
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Mild
- Minimal
- Chronicprogr, Minimal
- Focal, Marked
- Minimal
- Histiocyte, Moderate
- Chronic, Minimal
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

- | | | | |
|-------------------|--|----------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Pigment | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Metaplasia | Squamous, Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic Active, Moderate |
| | [Infiltration Cellular TGLs = 3-6+7] | | |
| * Mammary Gland | | Adenocarcinoma | |
| | Duct | Dilation | Focal, Moderate |
| | [Adenocarcinoma TGLs = 1-16] | | |
| | [Dilation TGLs = 2-17] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-11] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm

DISP: Terminal Sacrifice

HISTO: 1202997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Minimal |
| | | Thrombus | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Mammary Gland | Duct | Dilation | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 451

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Hypercellularity
 - Cystic, Mild
 - Focal, Minimal
- * Bone Marrow
 - Hypertrophy
 - Hypercellularity
 - Focal, Minimal
- * Heart
 - Cardiomyopathy
 - Mild
- * Intestine Large, Rectum
 - Parasite Metazoan
- * Kidney
 - Nephropathy
 - Chronicprogr, Minimal
- * Liver
 - Hepatocyte
 - Cytoplasmic Alteration
 - Minimal
- * Lung
 - Alveolus
 - Infiltration Cellular
 - Inflammation
 - Histiocyte, Moderate
 - Chronic, Mild
- [Infiltration Cellular TGLs = 1-6+7]
- * Pancreas
 - Polyarteritis Nodosa
 - Mild
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
- [Adenoma TGLs = 2-16]
- * Spleen
 - Extramedullary Hematopoiesis
 - Minimal
- * Uterus
 - Pigment
 - Marked
 - Endometrium
 - Hyperplasia
 - Cystic, Mild
 - Endometrium
 - Metaplasia
 - Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 452

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1202999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- [Dilation TGLs = 5-17]
- [Fibroadenoma TGLs = 1-16]
- * Ovary
- [Cyst TGLs = 3-15]
- * Pituitary Gland
- [Adenoma TGLs = 4-11]
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- Duct
- Bursa
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- Endometrium
- [Polyp TGLs = 2-15]
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Dilation
- Fibroadenoma
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Hyperplasia
- Metaplasia
- Polyp
- Focal, Mild
- Marked
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Focal, Moderate
- Mild
- Moderate
- Minimal
- Cystic, Mild
- Squamous, Mild
- Glandular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 655

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Medulla
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- Hepatocyte
- Hepatocyte
- Alveolus
- [Fibroadenoma TGLs = 1,2-16+17]
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Mild
- Mild
- Histiocyte, Minimal
- Multiple
- Mild
- Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 454

TRT#: 10

SEX: Female

DAY ON TEST: 625

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------|------------------------------|-------------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Hepatocyte | Necrosis | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-16+17] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 455

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- Epithelium
- Pars Distalis
- [Adenoma TGLs = 1-11]
- C Cell
- Endometrium
- Endometrium
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Hyperplasia
- Metaplasia
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Lobular, Focal, Minimal
- Mild
- Moderate
- Mild
- Cystic, Moderate
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 456

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Ovary
- * Spleen
- Hepatocyte
- Alveolus
- Follicle
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Angiectasis
- Cytoplasmic Alteration
- Infiltration Cellular
- Fibroadenoma
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Focal, Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 457

TRT#: 10

SEX: Female

DAY ON TEST: 420

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|--------------|------------------------------|-----------------------|
| * Kidney | | Hydronephrosis | Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Marked |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 458

TRT#: 10

SEX: Female

DAY ON TEST: 730

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Pituitary Gland
- * Spleen
- * Uterus
- [Hyperplasia TGLs = 1-15]
- Degeneration
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Hepatocyte
- Alveolus
- Alveolus
- Pars Distalis
- Endometrium
- Endometrium
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Cystic, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Minimal
- Minimal
- Minimal
- Cystic, Moderate
- Squamous, Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 459

TRT#: 10

SEX: Female

DAY ON TEST: 654

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * 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 | | Hyperplasia | Focal, Moderate |
| | | Necrosis | Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Harderian Gland | | Atrophy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Chronic, Minimal |
| | [Infiltration Cellular TGLs = 2-6] | | |
| * Ovary | Bursa | Cyst | |
| | [Cyst TGLs = 3-15] | | |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| | Endometrium | Metaplasia | Squamous, Mild |
| | [Hyperplasia TGLs = 1-15] | | |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 615

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|--------------|-------------------------------|------------------------|-----------------------|
| Blood Vessel | | Mineral | Mild |
| * Kidney | | Mineral | Mild |
| | | Nephropathy | Chronicprogr, Mild |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Inflammation | Suppurative, Moderate |
| | [Inflammation TGLs = 1-6+7] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Suppurative, Moderate |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Pigment | Marked |
| * Trachea | Submucosa | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH - Lung Alveolus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 461

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- [Polyp Stromal TGLs = 3-17]
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Cyst
- Atypia Cellular
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Focal, Mild
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Mild
- Mild
- Minimal
- Cystic, Moderate
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 462

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - * Bone Marrow
 - * Heart
 - * Kidney
 - * Liver
 - * Lung
 - * Mammary Gland
 - [Fibroadenoma TGLs = 1,2-16+17]
 - * Nose
 - * Spleen
 - * Stomach, Forestomach
 - [Ulcer TGLs = 3-18]
 - * Uterus
- Hyperplasia
 - Hypertrophy
 - Hypercellularity
 - Cardiomyopathy
 - Nephropathy
 - Cytoplasmic Alteration
 - Infiltration Cellular
 - Fibroadenoma
 - Hyperplasia
 - Extramedullary Hematopoiesis
 - Hyperplasia
 - Pigment
 - Hyperplasia
 - Ulcer
 - Dilation
- Focal, Mild
 - Focal, Minimal
 - Mild
 - Minimal
 - Chronicprogr, Minimal
 - Minimal
 - Histiocyte, Minimal
 - Multiple
 - Mild
 - Moderate
 - Lymphoid, Mild
 - Mild
 - Multifocal, Marked
 - Moderate
 - Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 463

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Bile Duct
- Alveolus
- Alveolus
- Pars Distalis
- Pars Distalis
- C Cell
- Endometrium
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Polyp Stromal
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Mild
- Histiocyte, Moderate
- Chronic, Minimal
- Minimal
- Mild
- Moderate
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 464

TRT#: 10

SEX: Female

DAY ON TEST: 547

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland
- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- * Spleen
- * Thyroid Gland
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Inflammation
- Carcinoma
- Infiltration Cellular
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Carcinoma
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Chronic Active, Minimal
- Metastatic (Thyroid Gland)
- Histiocyte, Mild
- Chronic, Minimal
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 465

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 5-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,3-17+18]
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4-11]
- * Skin
- [Fibrosarcoma TGLs = 2-16]
- * Spleen
- * Thyroid Gland
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Adenoma
- Fibrosarcoma
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Carcinoma
- Hyperplasia
- Hyperplasia
- Metaplasia
- Focal, Mild
- Focal, Mild
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Moderate
- Chronic, Minimal
- Multiple
- Mild
- Lymphoid, Mild
- Mild
- Mild
- Mild
- Cystic, Moderate
- Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 703

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3-6+7]
- * Lymph Node, Mesenteric
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- [Carcinoma TGLs = 4-18]
- * Skin
- [Basal Cell Adenoma TGLs = 2-17]
- * Spleen
- Hyperplasia
- Vacuolization Cytoplasmic
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Infiltration Cellular
- Fibroadenoma
- Carcinoma
- Basal Cell Adenoma
- Pigment
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Mast Cell, Mild
- Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 467

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, 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

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 468

TRT#: 10

SEX: Female

DAY ON TEST: 589

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Marked
- Mild
- Mild
- Cystic, Mild
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 469

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Ovary
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Bile Duct
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 3-6+7]
- [Cyst TGLs = 1-15]
- [Adenoma TGLs = 4-11]
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- [Hyperplasia TGLs = 2-15]
- Thrombus
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Metaplasia
- Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Histiocyte, Moderate
- Chronic, Minimal
- Minimal
- Moderate
- Cystic, Marked
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 610

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Intestine Large, Cecum

OBSERVATIONS

- * Adrenal Cortex
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Lymph Node, Mesenteric
- * Mammary Gland
- [Dilation TGLs = 1-16]
- * Pituitary Gland
- [Adenoma TGLs = 3-17]
- * Spleen
- * Uterus
- Hyperplasia
- Atrophy
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Dilation
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Lymphoid, Moderate
- Focal, Moderate
- Minimal
- Marked
- Cystic, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 471

TRT#: 10

SEX: Female

DAY ON TEST: 515

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- * Kidney
 - * Lung
 - * Pituitary Gland
 - * Spleen
 - * Uterus
 - Nephropathy
 - Infiltration Cellular
 - Hyperplasia
 - Pigment
 - Metaplasia
 - Polyp Stromal
 - Chronicprogr, Minimal
 - Histiocyte, Mild
 - Mild
 - Moderate
 - Squamous, Moderate
- [Infiltration Cellular TGLs = 1-6+7]
- [Hyperplasia TGLs = 2-11]
- [Polyp Stromal TGLs = 3-16]

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 472

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Cardiomyopathy
 - Nephropathy
 - Hepatocellular Adenoma
 - Cystic, Minimal
 - Focal, Minimal
 - Focal, Minimal
 - Minimal
 - Chronicprogr, Mild
- * Heart
- * Kidney
- * Liver
 - [Hepatocellular Adenoma TGLs = 3-17]
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 1-6+7]
 - Infiltration Cellular
 - Inflammation
 - Histiocyte, Moderate
 - Chronic, Mild
- * Pituitary Gland
 - Pars Distalis
 - [Hyperplasia TGLs = 2-16]
 - Hyperplasia
 - Marked

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 473

TRT#: 10

SEX: Female

DAY ON TEST: 551

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland
- * Urinary Bladder

OBSERVATIONS

- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Nose
- * Pituitary Gland
- [Adenoma TGLs = 3-11]
- * Spleen
- * Uterus
- [Dilatation TGLs = 1-16]
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Dilatation
- Adenoma
- Pigment
- Dilatation
- Hyperplasia
- Metaplasia
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Marked
- Marked
- Cystic, Minimal
- Squamous, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 448

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Spleen
- Alveolus
- Alveolus
- Hyperplasia
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Marked
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Mild
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 466

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Clitoral Gland
 - [Inflammation TGLs = 2-14]
- * Kidney
- * Liver
- * Lung
 - [Infiltration Cellular TGLs = 3-6+7]
- * Mammary Gland
 - [Fibroadenoma TGLs = 1-16]
- * Spleen
- * Uterus
- Hypertrophy
- Hypercellularity
- Inflammation
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Mild
- Chronic, Moderate
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Mild
- Cystic, Mild
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 476

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Eye
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Pituitary Gland
- * Spleen
- * Trachea
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Hyperplasia
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Dilation
- Hyperplasia
- Metaplasia
- Focal, Mild
- Focal, Mild
- Mild
- Squamous, Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Minimal
- Chronic, Minimal
- Mild
- Minimal
- Focal, Minimal
- Cystic, Mild
- Squamous, Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 477

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 4-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Ovary
- [Cyst TGLs = 2,3-15]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Hepatocyte
- Alveolus
- Alveolus
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Cyst
- Pars Distalis
- Endometrium
- Endometrium
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Cyst
- Hyperplasia
- Metaplasia
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Minimal
- Mild
- Mild
- Cystic, Mild
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Nose |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Hypercellularity | Marked |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Chronicprogr, Moderate |
| | [Nephropathy TGLs = 2,3-8] | | |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 5-17] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | | Keratin Cyst | |
| | [Infiltration Cellular TGLs = 6-6+7] | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| * Ovary | Follicle | Cyst | |
| | | Tubulostromal Adenoma | |
| * Pituitary Gland | Pars Distalis | Hypertrophy | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203025

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Pigment Hyperplasia Inflammation	Minimal Mild Chronic Active, Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Marked

[Hyperplasia TGLs = 4-15]

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Nose
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Ovary
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Parathyroid Gland
- * Thymus
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Mammary Gland
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Hyperplasia
 - Hypertrophy
 - Hypercellularity
- * Bone Marrow
 - Lymphoma Malignant
 - Nephropathy
- * Intestine Large, Rectum
 - Lymphoma Malignant
- * Kidney
 - Lymphoma Malignant
- * Liver
 - [Lymphoma Malignant TGLs = 6-12+18]
- * Lung
 - Alveolus
 - Infiltration Cellular
 - [Infiltration Cellular TGLs = 7-6+7]
- Lymph Node
 - Mediastinal
 - Inguinal
 - [Lymphoma Malignant TGLs = 3-17]
 - [Lymphoma Malignant TGLs = 8-19]
- * Lymph Node, Mandibular
 - [Lymphoma Malignant TGLs = 1-17]
- * Lymph Node, Mesenteric
 - [Lymphoma Malignant TGLs = 5-17]
- * Pancreas
 - Lymphoma Malignant
- * Pituitary Gland
 - Pars Distalis
 - [Adenoma TGLs = 9-11]
 - Adenoma
- * Spleen
 - Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203026

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLs = 4-16]

* Stomach, Forestomach

Ulcer

Moderate

* Uterus

Polyp Stromal

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 480

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine 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

- | | | | |
|---------------------------|--|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Clear Cell Focus | |
| | | Cytoplasmic Alteration | Minimal |
| | | Hemorrhage | Focal, Mild |
| | [Hemorrhage TGLs = 2-16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 481

TRT#: 10

SEX: Female

DAY ON TEST: 473

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Necrosis
 - Thrombus
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- [Nephropathy TGLs = 2-8]
- * Liver
 - Inflammation
 - Necrosis
- * Lung
 - Hepatocyte
 - Alveolus
 - Alveolus
 - Infiltration Cellular
 - Inflammation
- [Infiltration Cellular TGLs = 1-6+7]
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment

- Focal, Mild
- Focal, Minimal
- Minimal
- Minimal
- Mild
- Moderate
- Chronicprogr, Moderate
- Chronic Active, Mild
- Mild
- Histiocyte, Minimal
- Chronic, Minimal
- Minimal
- Moderate
- Mild

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 482

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 1-6+7]
- * Pituitary Gland
- [Adenoma TGLs = 2-11]
- * Spleen
- * Uterus
- Hypertrophy
- Vacuolization Cytoplasmic
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Focal, Mild
- Minimal
- Mild
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Chronic, Mild
- Mild
- Moderate
- Cystic, Marked
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 483

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Hepatocyte
- Bile Duct
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- Duct
- Follicle
- [Cyst TGLs = 1-16]
- Pars Distalis
- Endometrium
- Endometrium
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Dilation
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Mild
- Histiocyte, Moderate
- Chronic, Mild
- Focal, Mild
- Moderate
- Moderate
- Minimal
- Cystic, Marked
- Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 486

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|-----------------------|
| * Harderian Gland | | Atrophy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Minimal |
| | | Pigment | Moderate |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 487

TRT#: 10

SEX: Female

DAY ON TEST: 329

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Marked |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Necrosis | Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-16] | | | |
| * Spleen | | Extramedullary Hematopoiesis | Moderate |
| | | Pigment | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 488

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 3-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1+2-16,17]
- * Spleen
- * Thyroid Gland
- Hepatocyte
- Alveolus
- Alveolus
- Hypertrophy
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Focal, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Mild
- Mild

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 489

TRT#: 10

SEX: Female

DAY ON TEST: 557

DOSE: 10000 ppm

DISP: Natural Death

HISTO: 1203036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, 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 | | Hypercellularity | Marked |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| | Alveolus | Inflammation | Chronic, Mild |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | | Pigment | Mild |
| * Uterus | | Dilation | Marked |
| | | Hemorrhage | Minimal |
| | Endometrium | Metaplasia | Squamous, Mild |
| | | Thrombus | Minimal |

[Dilation TGLs = 1-16]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 490

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney
- * Liver
- * Lung
- [Infiltration Cellular TGLs = 2-6+7]
- * Mammary Gland
- [Fibroadenoma TGLs = 1-16]
- * Nose
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Metaplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Focal, Minimal
- Focal, Minimal
- Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Moderate
- Chronic, Mild
- Minimal
- Squamous, Minimal
- Minimal
- Mild
- Mild
- Cystic, Minimal
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 491

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Hypertrophy
 - Vacuolization Cytoplasmic
- * Bone Marrow
 - Hypercellularity
- * Heart
 - Cardiomyopathy
- * Kidney
 - Nephropathy
- * Liver
 - Hepatocyte
 - Cytoplasmic Alteration
- * Lung
 - Alveolus
 - Infiltration Cellular TGLs = 2-6+7]
 - Alveolus
 - Inflammation
- * Mammary Gland
 - Duct
 - [Dilation TGLs = 1-16]
 - Dilation
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Extramedullary Hematopoiesis
 - Pigment
- * Uterus
 - Endometrium
 - Hyperplasia
 - Endometrium
 - Metaplasia
 - Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 492

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * 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

- | | | | |
|------------------|--|------------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Bone Marrow | | Hypercellularity | Mild |
| * Kidney | | Nephropathy | Chronicprogr, Mild |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Moderate |
| | Alveolus | Inflammation | Chronic, Mild |
| | [Infiltration Cellular TGLs = 1-6+7] | | |
| * Spleen | | Extramedullary Hematopoiesis | Mild |
| | | Pigment | Marked |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | Endometrium | Metaplasia | Squamous, Minimal |

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 493

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver
- * Lung
- * Nose
- * Ovary
- * Pituitary Gland
- * Spleen
- * Uterus
- Hyperplasia
- Hypertrophy
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Inflammation
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Focal, Minimal
- Focal, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Acute, Mild
- Marked
- Mild
- Mild
- Cystic, Moderate
- Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 495

TRT#: 10

SEX: Female

DAY ON TEST: 438

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Esophagus		Cholangiocarcinoma	Metastatic (Liver)
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Cholangiocarcinoma	
	[Cholangiocarcinoma TGLs = 1-16]		
* Lung	Alveolus	Inflammation	Suppurative, Mild
	[Inflammation TGLs = 4,5-6+7+19]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 3-18]		
Mesentery		Cholangiocarcinoma	Metastatic (Liver)
	[Cholangiocarcinoma TGLs = 2-17]		
* Nose	Respirat Epith	Erosion	Multifocal, Minimal
		Foreign Body	
		Inflammation	Suppurative, Mild
* Spleen	Lymph Follic	Atrophy	Moderate
		Pigment	Marked
* Stomach, Forestomach		Cholangiocarcinoma	Metastatic (Liver)
	Epithelium	Hyperplasia	Mild
* Trachea	Glands	Inflammation	Suppurative, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 495

TRT#: 10

SEX: Female

DAY ON TEST: 438

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203042

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Liver Cholangiocarcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Cholangiocarcinoma Liver

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 496

TRT#: 10

SEX: Female

DAY ON TEST: 543

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
- Hepatocyte
- Hepatocyte
- Alveolus
- Alveolus
- [Infiltration Cellular TGLs = 2-6+7]
- [Fibroadenoma TGLs = 1-16]
- C Cell
- Endometrium
- Endometrium
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Extramedullary Hematopoiesis
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Hyperplasia
- Metaplasia
- Focal, Mild
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Chronic, Minimal
- Moderate
- Minimal
- Cystic, Moderate
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 497

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Inflammation	Chronic, Minimal
	[Infiltration Cellular TGLs = 1-6+7]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-11]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Focal, Minimal
* Thymus	Epithel Cell	Hyperplasia	Mild
* Trachea	Submucosa	Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Metaplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 498

TRT#: 10

SEX: Female

DAY ON TEST: 618

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Brain
 - [Hemorrhage TGLs = 1-3+4+5]
- * Heart
- * Kidney
- * Liver
- * Lung
 - Alveolus
 - Alveolus
 - [Infiltration Cellular TGLs = 3-6+7]
- * Lymph Node, Mesenteric
- * Mammary Gland
 - [Fibroadenoma TGLs = 2-16]
- * Spleen
- * Uterus
- Hyperplasia
- Lymphoma Malignant
- Hemorrhage
- Hemorrhage
- Lymphoma Malignant
- Nephropathy
- Lymphoma Malignant
- Infiltration Cellular
- Inflammation
- Lymphoma Malignant
- Fibroadenoma
- Lymphoma Malignant
- Pigment
- Dilation
- Focal, Minimal
- Moderate
- Moderate
- Chronicprogr, Mild
- Histiocyte, Moderate
- Chronic, Mild
- Minimal
- Moderate

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 499

TRT#: 10

SEX: Female

DAY ON TEST: 731

DOSE: 10000 ppm

DISP: Terminal Sacrifice

HISTO: 1203046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Angiectasis	Focal, Mild
	Bile Duct	Cyst	Multiple
	Hepatocyte	Cytoplasmic Alteration	Minimal
	Bile Duct	Eosinophilic Focus	
	[Cyst TGLs = 1,2-16+17]	Hyperplasia	Minimal
	[Eosinophilic Focus TGLs = 3-18]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Inflammation	Chronic, Mild
	[Infiltration Cellular TGLs = 6-6+7]		
* Spleen		Pigment	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 4,5-15]	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ANIMAL ID: 500

TRT#: 10

SEX: Female

DAY ON TEST: 333

DOSE: 10000 ppm

DISP: Moribund Sacrifice

HISTO: 1203047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---|------------------------------|-----------------------|
| * Bone Marrow | | Hypercellularity | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | Hepatocyte | Cytoplasmic Alteration | Minimal |
| | | Extramedullary Hematopoiesis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Adenocarcinoma | |
| | [Adenocarcinoma TGLs = 1-16] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Extramedullary Hematopoiesis | Marked |
| | [Extramedullary Hematopoiesis TGLs = 2-8] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

*** END OF REPORT ***