

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

C Number:	C50362
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male

ANIMAL ID: 1_501	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Cyst, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Neck	Fibroma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_502	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Skull	Adenocarcinoma, Nos, Metastatic	
Brain	Cortex	Adenocarcinoma, Nos, Metastatic	
Kidney		Nephrosis, Nos	
Lung	Bronchus	Adenocarcinoma, Nos	
Stomach	Mucosa	Ulcer, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_503	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Preputial gland		Hyperplasia, Cystic	
		Inflammation, Suppurative	
Prostate		Inflammation, Chronic	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_504	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Pituitary gland		Adenoma, Nos	
Preputial gland		Hyperplasia, Cystic	
		Inflammation, Suppurative	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_505	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Prostate		Inflammation, Suppurative	
Spleen		Hematopoiesis	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_506	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
Urinary bladder		Mucocele	
	Mucosa	Necrosis, Nos	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_507	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_508	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_509	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Blood vessel	Sup.Panc-Duod.Artery	Inflammation, Chronic Focal	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Cystic	
Preputial gland		Inflammation, Suppurative	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_510	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Skin	Abdomen	Cyst, Epidermal Inclusion	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Abdomen	Fibroma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_511

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Testis

Unspecified

Bile Duct

Axilla

Pheochromocytoma

Nephrosis, Nos

Hepatocellular Carcinoma

Hyperplasia, Nos

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_512	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Retinopathy	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_513	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Retinopathy	
Intestine Small	Ileum	Adenocarcinoma, Nos	
	Ileum	Metaplasia, Osseous	
Liver		Necrosis, Coagulative	
Lymph node	Pancreatic Lymph Node	Lymphangiectasis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_514	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_515	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_516	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_517	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_518	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Suppurative	
Stomach	Omentum Nos	Necrosis, Fat	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_519	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nos	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pituitary gland	Anterior Pituitary	Cyst, Nos	
Prostate		Inflammation, Suppurative	
Skin	Axilla	Cyst, Epidermal Inclusion	
Testis		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_520	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Hemorrhage	
		Necrosis, Focal	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Skin	Pelvis	Cyst, Epidermal Inclusion	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_521	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Testis		Hyperplasia, Interstitial Cell	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_522	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Cystic Follicles	
		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_523	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
		Cystic Follicles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_524	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Lymph node	Mandibular Lymph Node	Cyst, Nos	
Mammary gland		Fibroadenoma	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_525	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Brain	Cerebellum Nos	Psammoma Bodies	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_526	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Lung		Alveolar/Bronchiolar Carcinoma	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_527	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Hyperplasia, Nos	
Prostate		Adenoma, Nos	
		Inflammation, Suppurative	
Skin	Abdomen	Cyst, Epidermal Inclusion	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_528	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Adhesion, Fibrous	
	Centrilobular	Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Lung		Hyperplasia, Alveolar Epithelium	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_529	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Brain	Hypothalamus Nos	Compression, Nos	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Stomach	Fundal Gland	Dilatation, Nos	
	Mucosa	Ulcer, Nos	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_530	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thymus		Cyst, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_531

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 50000 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Cataract

Kidney

Retinopathy

Liver

Nephrosis, Nos

Pancreas

Bile Duct

Hyperplasia, Nos

Acinus

Atrophy, Focal

Duct Nos

Hyperplasia, Epithelial

Skin

Cyst, Epidermal Inclusion

Testis

Nose

Hyperplasia, Epithelial

Thyroid

Atrophy, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_532	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Neoplastic Nodule	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_533	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Heart	Myocardium Nos	Fibrosis, Diffuse	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_534	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_535	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Interstitial	
Spleen		Hemosiderosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_536	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Intestine Small	Mesentery Nos	Periarteritis	
Kidney		Nephrosis, Nos	
Pancreas	Acinus	Atrophy, Focal	
Preputial gland		Hyperplasia, Cystic	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_537	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Lung		Alveolar/Bronchiolar Adenoma	
Pancreas	Islets	Islet-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Unspecified	Groin	Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_538	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cyst, Hemorrhagic	
Eye		Cataract	
		Hemorrhage	
		Retinopathy	
Intestine Small	Mesentery Nos	Periarteritis	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland	Mammary Duct	Cyst, Hemorrhagic	
		Cystic Ducts	
Prostate		Inflammation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_539	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Change, Nos	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Duct Nos	Hyperplasia, Epithelial	
Prostate		Degeneration, Cystic	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
	Scrotum Nos	Neurilemoma, Malignant	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_540	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos	Liposarcoma	
Pancreas	Islets	Islet-Cell Adenoma	
Spleen		Hematopoiesis	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_541	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Hypothalamus Nos	Compression, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Congestion, Nos	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_542	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Prostate		Inflammation, Suppurative	
Stomach	Submucosa	Edema, Nos	
	Mucosa	Ulcer, Nos	
Thyroid		Cyst, Thyroglossal Duct	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_543	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone	Rib	Osteosarcoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Congestion, Nos	
Pancreas	Acinus	Atrophy, Nos	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_544	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Nos	
Spleen		Fibrosis, Focal	
Testis		Interstitial-Cell Tumor	
Thymus		Hyperplasia, Cystic	
Thyroid		C-Cell Adenoma	
		Degeneration, Cystic	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_545	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Prostate		Inflammation, Suppurative	
Skin	Abdomen	Cyst, Epidermal Inclusion	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_546	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Liver	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty	
Spleen		Infarct, Nos	
Stomach	Mucosa	Calcification, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_547	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma	
Eye		Cataract Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pancreas	Islets	Islet-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos Interstitial-Cell Tumor	
Unspecified	Abdomen Multiple Organs Nos	Basal-Cell Tumor Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_548	TRT#: 1 DOSE: 50000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_549	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas		Inflammation, Focal	
Preputial gland		Inflammation, Suppurative	
Stomach	Serosa	Periarteritis	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_550	TRT#: 1	SEX: Male	DAY ON TEST:
	DOSE: 50000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_501	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Carcinoma	
		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Hepatocytes	Degeneration, Cystic	
	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Hyperplasia, Focal	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_502	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Heart		Fibrosis, Diffuse	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Pancreas		Cystic Ducts	
Skin	Head Nos	Squamous Cell Carcinoma	
Testis		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_503	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Hepatocytes	Degeneration, Cystic	
	Bile Duct	Hyperplasia, Nos	
		Neoplastic Nodule	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_504	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Hypothalamus Nos	Compression, Nos	
Eye		Cataract	
		Retinopathy	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node		Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Adenoma, Nos	
Preputial gland		Adenoma, Nos	
		Inflammation, Suppurative	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_505

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 25000 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Intestine Small

Kidney

Liver

Mammary gland

Preputial gland

Stomach

Testis

Cortex Nos

Mesentery Nos

Bile Duct

Fundal Gland

Multiple Organs Nos

Cytoplasmic Vacuolization

Necrosis, Fat

Nephrosis, Nos

Hyperplasia, Nos

Cystic Disease

Adenocarcinoma, Nos

Dilatation, Nos

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_506	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
		Tubular-Cell Adenoma	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Spleen		Fibrosis, Focal	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_507	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos	Periarteritis	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Alveolar/Bronchiolar Carcinoma	
Pancreas		Periarteritis	
Pituitary gland		Hyperplasia, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_508	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Larynx		C-Cell Carcinoma, Invasive	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_509	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Congestion, Nos	
	Bile Duct	Hyperplasia, Nos	
Lung		Congestion, Nos	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_510	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Eye	Cornea	Inflammation, Nos	
Lung		Squamous Cell Carcinoma, Metastatic	
Lymph node	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic	
Stomach	Omentum Nos	Necrosis, Fat	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_511	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos Mesentery Nos	Fibrosis, Focal Necrosis, Fat Nephrosis, Nos Cystic Ducts	
Kidney		Islet-Cell Adenoma	
Mammary gland		Inflammation, Suppurative	
Pancreas	Islets	Atrophy, Nos	
Prostate		Interstitial-Cell Tumor	
Testis			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_512	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Angiectasis	
		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis, Diffuse	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Pigmentation, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_513	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Centrilobular	Atrophy, Nos	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Ducts	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_514

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Inflammation, Chronic Focal
Pituitary gland	Adenoma, Nos
Prostate	Inflammation, Suppurative
Thyroid	Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_515	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Salivary gland	Parotid Gland Nos	Atrophy, Focal	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_516

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 25000 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Nephrosis, Nos
Liver	Periportal	Histiocytosis
	Bile Duct	Hyperplasia, Nos
Mammary gland		Cystic Disease
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_517	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Chronic	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified		Fibrous Histiocytoma, Malignant	
	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_518	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Congestion, Nos	
		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis, Diffuse	
	Atrium	Thrombosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Metamorphosis, Fatty	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_519	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
	Mucosa	Ulcer, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_520	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Ducts	
Prostate		Inflammation, Nos	
Stomach	Omentum Nos	Necrosis, Fat	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_521	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_522	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Congestion, Nos	
Testis		Hyperplasia, Interstitial Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_523	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
Mammary gland		Cyst, Hemorrhagic	
		Foreign Body, Reaction	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_524	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Heart	Myocardium Nos	Fibrosis, Diffuse	
Kidney		Nephrosis, Nos	
Liver	Hepatocytes	Degeneration, Cystic	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Adenosis	
	Mammary Duct	Foreign Body, Reaction	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_525	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
	Islets	Islet-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
Unspecified	Groin	Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_526	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Hyperplasia, Interstitial Cell	
Thyroid		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_527	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid	
Pancreas	Acinus	Atrophy, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Fibrosarcoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_528	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Eye		Cataract	
		Retinopathy	
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver		Neoplastic Nodule	
Lung		Alveolar/Bronchiolar Carcinoma	
Prostate		Inflammation, Suppurative	
Skin	Chest	Cyst, Epidermal Inclusion	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_529	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Brain	Hypothalamus Nos	Compression, Nos	
Kidney		Nephrosis, Nos	
Liver		Necrosis, Coagulative	
Mammary gland		Cystic Ducts	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_530	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Degeneration, Cystic	
		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_531	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_532	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Nephrosis, Nos	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_533	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Alveolar/Bronchiolar Adenoma	
Pituitary gland		Adenoma, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_534	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Periarteritis	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_535	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_536

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Brain

Hemorrhage

Prostate

Inflammation, Suppurative

Unspecified

Multiple Organs Nos

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_537	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Lymph node	Mandibular Lymph Node	Hyperplasia, Cystic	
Mammary gland		Hyperplasia, Cystic	
Pituitary gland	Anterior Pituitary	Hemosiderosis	
Spleen		Fibrosis, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_538	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Centrilobular	Atrophy, Nos	
	Bile Duct	Hyperplasia, Nos	
Lymph node	Pancreatic Lymph Node	Angiectasis	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_539	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis, Diffuse	
Kidney		Nephrosis, Nos	
Liver	Hepatocytes	Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Lung		Leukocytosis, Nos	
Prostate		Hyperplasia, Epithelial	
		Inflammation, Suppurative	
Skin	Abdomen	Keratoacanthoma	
	Groin	Squamous Cell Papilloma	
Testis		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_540	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Thalamus	Hemorrhage	
	Thalamus	Necrosis, Focal	
Kidney	Tubule	Pigmentation, Nos	
Liver	Centrilobular	Atrophy, Nos	
	Bile Duct	Hyperplasia, Nos	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_541	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Lymph node	Mediastinal Lymph Node	Angiectasis	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
		Degeneration, Cystic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_542	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_543	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Islets	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_544	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_545	TRT#: 2 DOSE: 25000 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Kidney		Nephrosis, Nos	
Mammary gland		Cystic Ducts	
Pancreas	Acinus	Atrophy, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified		Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_546	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas		Acinar-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Spleen		Congestion, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_547

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis, Focal
Intestine Small	Mesentery Nos	Necrosis, Fat
Liver		Hematopoiesis
	Bile Duct	Hyperplasia, Nos
Lung		Leukocytosis, Nos
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Suppurative
Skin		Keratoacanthoma
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_548	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Heart		Inflammation, Chronic	
Kidney		Inflammation, Chronic	
Liver	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Testis		Interstitial-Cell Tumor	
Thyroid		Degeneration, Cystic	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_549	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_550	TRT#: 2	SEX: Male	DAY ON TEST:
	DOSE: 25000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Abdomen	Fibroma	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_501	TRT#: 3 DOSE: 0	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_502	TRT#: 3	SEX: Male	DAY ON TEST:
	DOSE: 0	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Hemorrhage	
		Retinopathy	
Intestine Small	Mesentery Nos	Necrosis, Fat	
	Mesentery Nos	Periarteritis	
Kidney		Nephrosis, Nos	
Liver	Centrilobular	Cytoplasmic Vacuolization	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_503	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract Hemorrhage Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Spleen		Fibrosis, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_504	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Hemorrhage	
		Retinopathy	
Heart	Atrium	Thrombosis, Nos	
Kidney		Hyperplasia, Lymphoid	
		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Preputial gland		Adenocarcinoma, Nos	
		Inflammation, Suppurative	
Prostate		Inflammation, Chronic Suppurative	
Testis		Hyperplasia, Interstitial Cell	
Thyroid		Cystic Follicles	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_505

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye

Cataract

Kidney

Retinopathy

Liver

Bile Duct

Nephrosis, Nos

Testis

Hyperplasia, Nos

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Degeneration, Cystic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_506	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver	Centrilobular Bile Duct	Atrophy, Nos Hyperplasia, Nos Thrombosis, Nos	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Fibrosis, Focal	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_507	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Mammary gland		Cystic Disease	
		Fibroadenoma	
Pancreas	Acinus	Atrophy, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Follicular-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_508	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Ganglioneuroma Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Hyperplasia, Alveolar Epithelium	
	Bronchiole	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Suppurative	
Skin	Tail	Squamous Cell Papilloma	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_509	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Pancreas	Acinus	Atrophy, Nos	
Pituitary gland		Hyperplasia, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_510	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_511

TRT#: 3

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Brain

Kidney

Liver

Mammary gland

Prostate

Testis

Unspecified

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Hemorrhage

Necrosis, Focal

Nephrosis, Nos

Hyperplasia, Nos

Cystic Disease

Inflammation, Suppurative

Interstitial-Cell Tumor

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_512	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Cytoplasmic Change, Nos	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
		Degeneration, Cystic	
		Regeneration, Nodular	
Pancreas	Acinus	Atrophy, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_513	TRT#: 3	SEX: Male	DAY ON TEST:
	DOSE: 0	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Hyperplasia, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_514	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Back	Fibroma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_515	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_516	TRT#: 3 DOSE: 0	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
Heart	Myocardium Nos	Fibrosis, Diffuse	
Kidney		Nephrosis, Nos	
Liver	Centrilobular	Congestion, Nos	
	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Necrosis, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_517	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Kidney		Nephrosis, Nos	
Skin	Abdomen	Cyst, Epidermal Inclusion	
Testis		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_518	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_519	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_520	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_521	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Brain	Hypothalamus Nos	Compression, Nos	
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Testis		Hyperplasia, Interstitial Cell	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_522	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Heart	Myocardium Nos	Fibrosis, Focal	
Intestine Small	Mesentery Nos	Periarteritis	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Stomach	Mucosa	Hypertrophy, Nos	
	Mucosa	Inflammation, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_523	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Retinopathy	
Kidney		Nephrosis, Nos	
Mammary gland		Cystic Disease	
Prostate		Hyperplasia, Epithelial	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_524	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Inflammation, Chronic	
Testis		Interstitial-Cell Tumor	
Unspecified	Thorax Nos	Osteosarcoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_525	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Retinopathy	
Kidney		Nephrosis, Nos	
Mammary gland		Cystic Disease	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Adenoma, Nos	
Preputial gland		Hyperplasia, Cystic	
Prostate		Inflammation, Suppurative	
Skin	Abdomen	Cyst, Epidermal Inclusion	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_526	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Eye		Cataract	
		Retinopathy	
Kidney		Hyperplasia, Lymphoid	
		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Ducts	
Prostate		Inflammation, Suppurative	
Spleen		Hyperplasia, Focal	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thymus		Thymoma, Benign	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_527	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_528	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Brain	Basal Surface	Inflammation, Suppurative	
	Basal Surface	Thrombosis, Nos	
Eye		Cataract	
	Cornea	Foreign Body, Nos	
		Retinopathy	
	Conjunctiva	Squamous Cell Carcinoma	
	Cornea	Wound, Perforating	
Heart	Myocardium Nos	Fibrosis, Focal	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Periportal	Metamorphosis, Fatty	
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Skin	Head Nos	Squamous Cell Carcinoma, Invasive	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_529	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pancreas	Islets	Islet-Cell Adenoma	
Pituitary gland		Hyperplasia, Focal	
Prostate		Inflammation, Suppurative	
Stomach	Omentum Nos	Necrosis, Fat	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_530	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization	
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Spleen		Lymphoma, Histiocytic-Malignant Type	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_531	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain	Pons Nos	Compression, Nos	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Skin	Abdomen	Parakeratosis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_532	TRT#: 3 DOSE: 0	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Centrilobular Bile Duct	Atrophy, Nos Hyperplasia, Nos	
Lung		Leukocytosis, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Prostate		Inflammation, Suppurative	
Spleen		Hematopoiesis	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Zymbal gland		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_533	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Inflammation, Chronic Focal	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Cystic	
		Leukocytosis, Nos	
Pituitary gland		Hyperplasia, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_534	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Chronic	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_535	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
Lung		Granuloma, Lipo	
Prostate		Adenoma, Nos	
Skin	Tail	Cyst, Epidermal Inclusion	
	Tail	Inflammation, Suppurative	
Stomach	Omentum Nos	Necrosis, Fat	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_536	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
	Bile Duct	Hyperplasia, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_537		TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Medulla	Hyperplasia, Focal	
Eye			Cataract	
			Retinopathy	
Kidney			Nephrosis, Nos	
Lung			Hyperplasia, Alveolar Epithelium	
		Bronchiole	Hyperplasia, Nos	
Lymph node		Mandibular Lymph Node	Hyperplasia, Cystic	
Mammary gland			Cystic Disease	
Prostate			Inflammation, Suppurative	
Testis			Interstitial-Cell Tumor	
Thyroid			C-Cell Adenoma	
Zymbal gland			Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_538	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Medulla	Cytoplasmic Vacuolization Hyperplasia, Focal Pheochromocytoma	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Liver		Hemosiderosis	
	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty Necrosis, Focal	
Mammary gland		Cystic Disease	
Pancreas	Acinus	Atrophy, Focal	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Atrophy, Nos Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_539

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Epididymis

Kidney

Liver

Testis

Bile Duct

Granuloma, Spermatic

Nephrosis, Nos

Hyperplasia, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_540	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
		Degeneration, Cystic	
Prostate		Inflammation, Suppurative	
Skin	Back	Cyst, Epidermal Inclusion	
Testis		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_541	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Cytoplasmic Vacuolization	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_542	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis, Focal	
Intestine Small	Mesentery Nos	Necrosis, Fat	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
Mammary gland		Cystic Disease	
Pituitary gland		Adenoma, Nos	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_543	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Pituitary gland	Anterior Pituitary	Cyst, Hemorrhagic	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_544	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Heart	Left Atrium Nos	Thrombosis, Nos	
Kidney		Nephrosis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty	
Prostate		Inflammation, Suppurative	
Stomach	Fundal Gland	Dilatation, Nos	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_545	TRT#: 3 DOSE: 0	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Necrosis, Focal	
Spleen		Hematopoiesis	
Testis		Interstitial-Cell Tumor	
Thyroid		Follicular-Cell Adenoma	
		Hyperplasia, C Cell	
Unspecified	Lower Leg Nos	Hematoma, Nos	
	Lower Leg Nos	Synovial Sarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_546	TRT#: 3 DOSE: 0	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization Pheochromocytoma	
Heart	Myocardium Nos	Fibrosis, Focal	
Intestine Large	Intestinal Tract	Inflammation, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Centrilobular	Metamorphosis, Fatty	
Mammary gland		Cystic Disease	
Prostate		Inflammation, Nos	
Spleen		Infarct, Nos	
Testis		Interstitial-Cell Tumor	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_547		TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Adrenal gland		Cortex Nos	Cytoplasmic Vacuolization	
		Medulla	Hyperplasia, Focal	
Eye			Cataract	
			Retinopathy	
Kidney			Cyst, Nos	
			Nephrosis, Nos	
Liver			Cytoplasmic Vacuolization	
			Degeneration, Cystic	
Mammary gland			Cystic Disease	
Pituitary gland			Adenoma, Nos	
Prostate			Inflammation, Suppurative	
Testis			Atrophy, Nos	
			Interstitial-Cell Tumor	
Thyroid			Degeneration, Cystic	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Mannitol

CAS Number: 69-65-8

Date Report Requested: 10/26/2014

Time Report Requested: 11:23:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_548	TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye		Cataract	
		Retinopathy	
Kidney		Nephrosis, Nos	
Liver		Hemorrhage	
	Bile Duct	Hyperplasia, Nos	
		Leukocytosis, Nos	
		Necrosis, Focal	
Pituitary gland		Adenoma, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		Cystic Follicles	
Unspecified	Axilla	Fibroma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_549	TRT#: 3 DOSE: 0	SEX: Male DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Liver	Centrilobular	Atrophy, Nos	
Prostate		Inflammation, Suppurative	
Stomach	Omentum Nos	Necrosis, Fat	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50362
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Mannitol
CAS Number: 69-65-8

Date Report Requested: 10/26/2014
Time Report Requested: 11:23:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_550		TRT#: 3 DOSE: 0	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS				
Eye			Cataract	
Kidney			Retinopathy	
Liver		Bile Duct	Nephrosis, Nos	
Pancreas		Acinus	Hyperplasia, Nos	
Testis			Atrophy, Focal	
			Atrophy, Nos	
			Interstitial-Cell Tumor	
PRIMARY CAUSE OF DEATH		-		

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE