

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

C Number:	C01945
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Female

ANIMAL ID: 1_001	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hemorrhage	
Kidney		Inflammation, Interstitial	
	Glomerulus	Inflammation, Membranous	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_002	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Ulcer, Focal	
Kidney		Glomerulonephritis, Nos	
Liver	Bile Duct	Hyperplasia, Nos	
	Bile Duct	Inflammation, Acute/Chronic	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Pituitary gland		Adenoma, Nos	
Trachea		Lymphocytic Inflammatory Infiltrate	
Uterus	Fallopian Tube	Inflammation, Suppurative	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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ANIMAL ID: 1_003	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney	Glomerulus	Inflammation, Membranous	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Pancreas		Inflammation, Interstitial	
Trachea		Lymphocytic Inflammatory Infiltrate	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_005	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Inflammation, Interstitial	
Liver		Perivascularitis	
		Sclerosis	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Ovary		Hyperplasia, Nos	
Trachea		Lymphocytic Inflammatory Infiltrate	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_006	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Degeneration, Nos	
Kidney	Glomerulus	Inflammation, Membranous	
Liver	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Interstitial	
	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Pancreas		Inflammation, Interstitial	
Pituitary gland		Adenoma, Nos	
Trachea		Lymphocytic Inflammatory Infiltrate	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_007	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchiole	Hyperplasia, Lymphoid	
Mammary gland		Fibroadenoma	
Pituitary gland		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Test Type: Long-Term
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Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_008	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver	Hepatocytes	Hyperplasia, Focal	
Lung	Bronchiole	Inflammation, Nos	
		Perivascularitis	
Pituitary gland		Adenoma, Nos	
Thyroid		C-Cell Adenoma	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_009	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Metamorphosis, Fatty	
Bone marrow		Hyperplasia, Hematopoietic	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_010	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Periarteritis	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Pancreas	Acinus	Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_011	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Lung		Perivascularitis	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Carcinoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

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Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Retina	Cataract	
		Degeneration, Nos	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_013	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney	Glomerulus	Inflammation, Membranous	
Liver	Bile Duct	Hyperplasia, Nos Inflammation, Focal Metamorphosis, Fatty	
Lung	Bronchiole	Inflammation, Nos Perivascularitis	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_014	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Bone marrow		Hypoplasia, Nos	
Heart	Myocardium Nos	Inflammation, Focal	
		Perivasculitis	
Liver		Necrosis, Coagulative	
Mammary gland		Galactoceles	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_015	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver	Hepatocytes	Hyperplasia, Focal	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_016	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Pituitary gland		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Hypertrophy, Nos	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_017	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchiole	Inflammation, Acute/Chronic	
		Perivascularitis	
Pituitary gland		Adenoma, Nos	
		Hyperplasia, Focal	
Thyroid		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Hyperplasia, Nos	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_018	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Lung	Bronchiole	Inflammation, Nos	
		Perivascularitis	
Mammary gland		Hyperplasia, Cystic	
Pituitary gland		Adenoma, Nos	
		Hyperplasia, Focal	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Necrosis, Focal	
Kidney	Cortex	Cyst, Nos	
		Glomerulonephritis, Nos	
Liver		Hyperplasia, Diffuse	
		Hypertrophy, Nos	
Pituitary gland		Hypertrophy, Focal	
		Necrosis, Focal	
Spleen		Leukemia, Myelomonocytic	
Uterus		Endometrial Stromal Polyp	
		Hydrometra	
	Endometrium	Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_020	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney	Glomerulus	Inflammation, Membranous	
Liver	Bile Duct	Inflammation, With Fibrosis	
Lung	Alveoli	Epithelialization	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_021	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Metamorphosis, Fatty	
	Cortex Nos	Nodule	
Intestine Small	Ileum	Hyperplasia, Lymphoid	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Mammary gland		Galactoceles	
		Papillary Cystadenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_022	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Nodule	
	Cortex Nos	Pigmentation, Nos	
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney		Glomerulonephritis, Nos	
Lung		Perivasculitis	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_023	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hemorrhage	
Kidney	Glomerulus	Inflammation, Membranous	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Mammary gland		Fibroadenoma	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_024	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Nodular	
Heart		Periarteritis	
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate	
		Perivascularitis	
Skin		Fibrosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_025	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Degeneration, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchiole	Inflammation, Nos	
		Perivascularitis	
Pituitary gland		Hyperplasia, Focal	
Skin		Fibroma	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_026	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Interstitial	
Mammary gland		Galactoceles	
Thyroid		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_028	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hemorrhage	
Lung		Metamorphosis, Fatty	
Mammary gland		Squamous Cell Carcinoma	
Spleen		Galactocoele	
Trachea		Hematopoiesis	
PRIMARY CAUSE OF DEATH		Polyp, Inflammatory	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_029	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Pancreas	Acinus	Atrophy, Nos	
Uterus	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_030	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Cortex Nos	Hyperplasia, Focal Nodule	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_031	TRT#: 1 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Hypertrophy, Nos	
Kidney	Glomerulus	Inflammation, Membranous	
Lung	Bronchus	Bronchiectasis	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_032	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchus	Bronchiectasis	
	Bronchus	Fibrosis	
	Bronchiole	Hyperplasia, Lymphoid	
		Inflammation, Interstitial	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hematopoiesis	
Thyroid		Hyperplasia, Focal	
Vagina		Fibrosarcoma	
		Lymphangiosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_033	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung		Inflammation, Interstitial	
		Perivascularitis	
Pancreas	Acinus	Atrophy, Focal	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
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Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_034	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Pancreas	Acinus	Degeneration, Granular	
	Islets	Islet-Cell Adenoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_035	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Cortical Adenoma	
	Cortex Nos	Hyperplasia, Focal	
Ear	Canal	Fibrosarcoma	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchiole	Inflammation, Acute/Chronic	
Pituitary gland		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_036	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Ovary		Cyst, Nos	
Pancreas	Islets	Islet-Cell Adenoma	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
	Fallopian Tube	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

DOSE: 0

SEX: Female

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Lung

Pituitary gland

Unspecified

Uterus

Multiple Organs Nos

Alveolar/Bronchiolar Carcinoma

Carcinoma, Nos

Lymphoma, Nos-Malignant

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_039	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Lung	Bronchiole	Inflammation, Acute/Chronic	
Mammary gland		Fibroadenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F344

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Date Report Requested: 10/26/2014
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First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_040	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Abscess, Nos	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Ovary		Cyst, Nos	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_041	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos Medulla	Degeneration, Nos Hyperplasia, Focal Glomerulonephritis, Nos	
Kidney		Hyperplasia, Focal	
Liver		Atrophy, Nos	
Pancreas	Acinus	Inflammation, Acute/Chronic	
Trachea		Endometrial Stromal Polyp	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_042	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Heart	Endocardium Nos	Inflammation, Acute/Chronic	
Kidney		Glomerulonephritis, Nos	
Lung	Bronchiole	Inflammation, Acute/Chronic	
Pituitary gland		Hyperplasia, Focal	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_043	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Necrosis, Focal	
Mammary gland		Fibroadenoma	
		Galactoceles	
Pituitary gland		Adenoma, Nos	
Spleen		Congestion, Nos	
Thyroid		C-Cell Adenoma	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_044	TRT#: 1 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Endocardium Nos	Inflammation, Acute/Chronic	
Lung		Perivascularitis	
Skin		Fibroadenoma	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_045	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nodular	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_046	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_047	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_048	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal Nodule	
Kidney		Glomerulonephritis, Nos	
Liver	Bronchiole	Hyperplasia, Focal	
Lung		Inflammation, Acute/Chronic	
Ovary	Acinus	Cyst, Nos	
Pancreas		Atrophy, Nos	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_049	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hepatocellular Carcinoma	
Ovary		Cyst, Nos	
Pancreas		Atrophy, Nos	
Pituitary gland		Adenoma, Nos	
Uterus	Endometrium	Inflammation, Acute	
	Fallopian Tube	Retention Fluid	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1_050	TRT#: 1 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Endocardium Nos	Inflammation, Acute/Chronic	
Kidney		Glomerulonephritis, Nos	
Mammary gland		Papillary Cystadenoma, Nos	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Vagina		Polyp, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_001	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Pancreas	Acinus	Atrophy, Focal	
Thyroid		C-Cell Adenoma	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_002	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Bursa		Inflammation, Acute/Chronic	
Kidney	Pelvis	Inflammation, Acute/Chronic	
Liver	Bile Duct	Hyperplasia, Focal	
Ovary		Cyst, Nos	
Pancreas		Inflammation, Acute/Chronic	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
		Hydrometra	
	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_003	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Ovary		Cyst, Nos	
Pituitary gland		Mineralization	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 4500 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Trachea

Colon

Parasitism

Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 4500 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Pituitary gland

Trachea

Uterus

Adenoma, Nos

Inflammation, Acute/Chronic

Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_006	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Carcinoma, Nos	
Mammary gland		Galactoceles	
		Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_007	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Fibrosis, Diffuse	
Liver		Hyperplasia, Focal	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_008	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Bone marrow		Fibrosis, Myelo	
		Leukemia, Undifferentiated	
Clitoral gland		Squamous Cell Carcinoma	
Intestine Large	Colon	Parasitism	
Liver		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
Pancreas		Inflammation, Acute/Chronic	
Spleen		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_009	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Pancreas	Islets	Islet-Cell Adenoma	
Trachea		Inflammation, Acute/Chronic	
Uterus		Adenocarcinoma, Nos	
	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_010	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Kidney		Glomerulonephritis, Nos	
Pancreas		Inflammation, Acute/Chronic	
Pituitary gland		Adenoma, Nos	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_011	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver	Centrilobular	Metamorphosis, Fatty	
		Necrosis, Nos	
Lung		Leiomyosarcoma, Metastatic	
Pituitary gland		Chromophobe Adenoma	
Spleen	Endometrium	Inflammation, Acute	
Uterus		Inflammation, Acute Necrotizing	
		Leiomyosarcoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_012	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung		Inflammation, Focal	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_013	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Metamorphosis, Fatty	
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Liver	Centrilobular	Metamorphosis, Fatty	
Lymph node	Lumbar Lymph Node	Lymphangiectasis	
Mammary gland		Adenocarcinoma, Nos	
		Galactoceles	
		Hyperplasia, Nos	
Pituitary gland		Cyst, Nos	
Spleen		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_015	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung	Bronchus	Bronchiectasis	
		Fibrosis, Diffuse	
	Bronchus	Inflammation, Acute Focal	
		Inflammation, Focal	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
		Hyperplasia, Nos	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
	-		

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_016	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney		Inflammation, Interstitial	
Liver		Hyperplasia, Focal	
Lung		Alveolar/Bronchiolar Adenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Trachea		Inflammation, Acute/Chronic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_017	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Focal	
Liver		Hyperplasia, Focal	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_018	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney		Inflammation, Interstitial	
Liver		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
		Hyperplasia, Nos	
Ovary		Cyst, Nos	
Pancreas	Acinus	Atrophy, Focal	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_020	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Trachea		Inflammation, Acute/Chronic	
Uterus		Hydrometra	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_021	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Ear	Middle Ear	Inflammation, Suppurative	
Heart	Myocardium Nos	Inflammation, Chronic Focal	
Lung	Bronchus	Inflammation, Chronic	
Pituitary gland		Hyperplasia, Nos	
Trachea		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_022	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Gliosis Malacia Oligodendroglioma	
Skin		Adenoma, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_023	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Intestine Large Liver Trachea	Colon	Parasitism Hyperplasia, Focal Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_024	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Thyroid		C-Cell Carcinoma	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_025	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Liver		Hyperplasia, Focal	
Lung		Inflammation, Granulomatous Focal	
Pituitary gland		Adenoma, Nos	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_027	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Pituitary gland		Adenoma, Nos	
Spleen		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
Vagina		Polyp, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_028	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
	Bile Duct	Hyperplasia, Nos	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_029	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Clitoral gland		Abscess, Nos	
		Adenoma, Nos	
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney		Inflammation, Interstitial	
Liver		Hyperplasia, Focal	
Lung		Inflammation, Focal	
Mammary gland		Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_030	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_031	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Hematopoiesis	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_032	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Brain		Inflammation, Suppurative	
Heart	Myocardium Nos	Inflammation, Chronic Focal	
Lung	Bronchus	Inflammation, Nos	
		Perivascularitis	
Spleen		Hemosiderosis	
Trachea		Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_034	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_035	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Hyperplasia, Nodular	
		Metamorphosis, Fatty	
Intestine Large	Colon	Parasitism	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Nos	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Uterus		Adenocarcinoma, Nos	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_036	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Lung	Bronchus	Bronchiectasis	
Unspecified		Fibroma	
Uterus	Endometrium	Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_037	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
Pituitary gland		Chromophobe Adenoma	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_038	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Adrenal gland Lung	Bronchus	Squamous Cell Carcinoma, Metastatic Bronchiectasis Edema, Nos Inflammation, Focal Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_039	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Liver		Hyperplasia, Focal	
Mammary gland		Fibroadenoma	
Ovary		Cyst, Nos	
Pituitary gland		Adenoma, Nos	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_040	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Hyperplasia, Focal	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_041	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Liver		Hyperplasia, Focal	
Lung		Hyperplasia, Alveolar Epithelium	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_042	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Clitoral gland		Adenoma, Nos	
Intestine Large	Colon	Parasitism	
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid	
Liver	Bile Duct	Hyperplasia, Focal	
		Hyperplasia, Focal	
Mammary gland		Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
		Inflammation, Acute/Chronic	
Unspecified		Fibroma	
Uterus	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_043	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Liver	Centrilobular	Necrosis, Nos	
Lung		Edema, Nos	
		Leiomyosarcoma	
Pituitary gland		Adenoma, Nos	
Spleen		Hemosiderosis	
Thyroid		C-Cell Adenoma	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_044	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland		Hyperplasia, Focal	
		Metamorphosis, Fatty	
Heart	Myocardium Nos	Fibrosis, Focal	
Liver		Hyperplasia, Focal	
	Bile Duct	Hyperplasia, Nos	
Mammary gland		Hyperplasia, Nos	
Skin	Dermis	Fibrosis	
Trachea		Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_046	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
		Hyperplasia, Nos	
		Inflammation, Acute	
Pancreas	Acinus	Atrophy, Focal	
		Inflammation, Acute/Chronic	
Pituitary gland		Chromophobe Adenoma	
Thyroid		Hyperplasia, C Cell	
Trachea		Inflammation, Acute/Chronic	
Uterus	Endometrium	Inflammation, Acute Vesicular	
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:04
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_047	TRT#: 2 DOSE: 4500 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Metamorphosis, Fatty	
Bone marrow		Hyperplasia, Hematopoietic	
Intestine Small	Ileum, Ileum	Hyperplasia, Lymphoid	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Mammary gland		Dilatation, Ducts	
		Fibroadenoma	
	Mammary Duct	Fibrosis	
		Galactoceles	
Ovary		Cyst, Nos	
Pituitary gland		Chromophobe Adenoma	
Trachea		Inflammation, Acute/Chronic	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_048	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Metamorphosis, Fatty	
Heart	Myocardium Nos	Inflammation, Acute/Chronic	
Kidney		Glomerulonephritis, Nos	
Mammary gland		Galactoceles	
		Hyperplasia, Nos	
Pancreas	Acinus	Atrophy, Focal	
		Inflammation, Acute/Chronic	
Pituitary gland		Chromophobe Adenoma	
Uterus		Endometrial Stromal Polyp	
	Endometrium	Inflammation, Acute	
	Fallopian Tube	Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:04

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 4500 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver		Hyperplasia, Focal
Mammary gland		Hyperplasia, Nos
Trachea		Inflammation, Acute/Chronic
Uterus	Endometrium	Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2_050	TRT#: 2	SEX: Female	DAY ON TEST:
	DOSE: 4500 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Bone marrow		Hyperplasia, Hematopoietic	
Liver		Necrosis, Focal	
Lung		Fibrosarcoma	
Lymph node	Tracheal Lymph Node	Fibrosarcoma, Metastatic	
	Mesenteric Lymph Node	Hemorrhage	
Pancreas		Atrophy, Focal	
		Inflammation, Acute/Chronic	
Uterus	Endometrium	Hyperplasia, Cystic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_002	TRT#: 3 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Larynx		Inflammation, Chronic	
Liver		Neoplastic Nodule	
Mammary gland		Lactation	
Pituitary gland		Chromophobe Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_003	TRT#: 3 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Brain		Hemorrhage	
		Hydrocephalus, Nos	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Liver		Metamorphosis, Fatty	
Mammary gland		Lactation	
Pituitary gland		Chromophobe Adenoma	
Spleen		Hematoma, Nos	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_004	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Peyers Patch	Hyperplasia, Nos	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
	Bile Duct	Hyperplasia, Nos	
Lung		Inflammation, Interstitial	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

DOSE: 0

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Liver	Cytoplasmic Change, Basophilic
Lung	Pneumonia, Chronic Murine
Mammary gland	Adenocarcinoma, Nos
Uterus	Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_006	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Lung		Granuloma, Foreign Body	
		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Pituitary gland		Hyperplasia, Focal	
Thyroid		C-Cell Adenoma	
	Follicle	Papillary Cystadenocarcinoma Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_007	TRT#: 3 DOSE: 0	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Mammary gland		Lactation	
Spleen		Hematopoiesis	
Uterus		Endometrial Stromal Polyp	
		Pyometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_008	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Pituitary gland		Adenoma, Nos	
Uterus		Endometrial Stromal Polyp	
	Fallopian Tube	Inflammation, Acute	
		Pyometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_009	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Intestine Small	Peyers Patch	Hyperplasia, Nos	
Kidney		Glomerulonephritis, Nos	
Spleen		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_011	TRT#: 3 DOSE: 0	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney	Tubule	Necrosis, Nos	
Larynx		Inflammation, Acute/Chronic	
Mammary gland		Adenocarcinoma, Nos	
		Lactation	
Spleen		Hematopoiesis	
Uterus	Fallopian Tube	Abscess, Nos	
		Endometrial Stromal Polyp	
	Endometrium	Hyperplasia, Cystic	
	Endometrium	Inflammation, Chronic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_012	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma, Malignant	
Liver		Cytoplasmic Change, Basophilic	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Ovary		Cyst, Nos	
Skin		Sebaceous Adenocarcinoma	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_013	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
	Bile Duct	Hyperplasia, Nos	
Spleen		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
Uterus	Endometrium	Hyperplasia, Nos	
	Endometrium	Inflammation, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_014	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Pyelonephritis, Chronic	
Liver		Cytoplasmic Change, Basophilic	
Ovary		Cyst, Nos	
Pituitary gland		Chromophobe Adenoma	
Spleen		Hematopoiesis	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_015	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Brain		Calcification, Focal	
Kidney		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Pituitary gland		Chromophobe Adenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

DOSE: 0

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Liver

Lung

Mammary gland

Calcification, Focal

Metamorphosis, Fatty

Alveolar/Bronchiolar Adenoma

Infiltrating Duct Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_017	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Mammary gland		Fibroadenoma	
Pituitary gland		Lactation	
		Chromophobe Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

DOSE: 0

SEX: Female

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Lung

Uterus

Pneumonia, Chronic Murine

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_019	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Large	Colon	Parasitism	
Intestine Small	Peyers Patch	Hyperplasia, Nos	
Kidney		Glomerulonephritis, Nos	
Liver		Hyperplasia, Focal	
Lung		Inflammation, Interstitial	
Mammary gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Spleen		Hemosiderosis	
		Hyperplasia, Erythroid	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Thyroid		C-Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_021	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos Pyelonephritis, Acute	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Fibroadenoma Galactoceles	
Ovary		Cyst, Nos	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_022	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Inflammation, Interstitial	
Intestine Small	Peyers Patch	Hyperplasia, Nos	
Lung		Hyperplasia, Epithelial	
		Inflammation, Interstitial	
Spleen		Hemosiderosis	
		Hyperplasia, Erythroid	
		Hyperplasia, Hematopoietic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_023	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Larynx		Inflammation, Chronic	
Mammary gland		Fibroadenoma	
		Lactation	
Pituitary gland		Cyst, Hemorrhagic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_024	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Bone marrow		Hyperplasia, Hematopoietic	
Liver		Cytoplasmic Change, Basophilic	
		Fibrosis, Cholangio	
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated	
Uterus		Pyometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 3_025	TRT#: 3 DOSE: 0	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Larynx		Inflammation, Chronic	
Liver		Neoplastic Nodule	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Fibroadenoma	
Pituitary gland		Chromophobe Adenoma	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_002	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Lung		Pneumonia, Chronic Murine	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_004

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 15000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephrosis, Nos

Parathyroid gland

Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_005	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nos	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Ovary		Cyst, Nos	
Stomach		Ulcer, Nos	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_006	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Mesenteric Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Necrosis, Focal	
Lung		Calcification, Focal	
Mammary gland		Calcification, Focal	
		Lactation	
Salivary gland		Calcification, Nos	
Stomach		Calcification, Focal	
Thymus		Atrophy, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_007	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Scheduled Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Liver		Hepatocellular Carcinoma	
Lung		Pneumonia, Chronic Murine	
Stomach	Mucosa	Calcification, Nos	
Uterus		Pyometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_008	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Mesenteric Artery Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Fibrosis, Myelo	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
Parathyroid gland		Hyperplasia, Nos	
Stomach	Mucosa	Calcification, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_009	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos Coronary Artery Nos Mesenteric Artery Nos	Calcification, Medial Calcification, Nos Calcification, Nos	
Bone marrow		Fibrosis, Myelo	
Heart	Myocardium Nos	Calcification, Focal Degeneration, Nos	
Kidney		Calcification, Focal Foreign Body, Nos Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Lung		Calcification, Focal Infarct, Focal	
Mammary gland		Galactoceles Lactation	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Stomach	Mucosa	Calcification, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_010	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos Coronary Artery Nos	Calcification, Nos Calcification, Nos	
Bone marrow		Fibrosis, Myelo	
Heart	Myocardium Nos Myocardium Nos	Calcification, Focal Degeneration, Nos	
Intestine Small	Ileum	Granuloma, Nos	
Kidney		Calcification, Focal Nephrosis, Nos	
Lung		Calcification, Focal Pneumonia, Chronic Murine	
Ovary		Cyst, Nos Inflammation, Acute	
Pancreas		Calcification, Nos	
Stomach	Mucosa	Calcification, Nos Foreign Body, Reaction	
Thymus		Atrophy, Nos	
Uterus		Pyometra	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_012	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS Lung		Pneumonia, Chronic Murine	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_013	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Stomach	Mucosa	Calcification, Nos	
Uterus	Endometrium	Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_014	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Mammary gland		Lactation	
Pituitary gland		Chromophobe Adenoma	
Stomach		Ulcer, Nos	
Thyroid		Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_015	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Blood vessel	Aorta Nos	Calcification, Medial	
	Mesenteric Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
		Thrombus, Mural	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Necrosis, Focal	
Lung		Calcification, Focal	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Calcification, Nos	
Stomach	Mucosa	Calcification, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_016	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nos	
Blood vessel	Pulmonary Artery Nos	Calcification, Focal	
Kidney		Nephrosis, Nos	
Liver		Metamorphosis, Fatty	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Spleen		Hemangioma	
Stomach		Ulcer, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_017	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Bone marrow		Fibrosis, Myelo	
		Osteosclerosis	
Heart		Calcification, Focal	
		Thrombus, Mural	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Mammary gland		Lactation	
Ovary		Inflammation, Acute	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
Thymus		Atrophy, Nos	
Uterus	Fallopian Tube	Inflammation, Acute	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_018	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Fibrosis, Myelo	
		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Inflammation, Acute Focal	
Lung		Calcification, Focal	
Stomach		Calcification, Focal	
Uterus		Pyometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_019	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS Intestine Large Kidney Parathyroid gland Stomach	Colon	Parasitism Nephrosis, Nos Hyperplasia, Nos Squamous Cell Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_020	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Fibrosis, Myelo	
		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Parathyroid gland		Hyperplasia, Nos	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_021	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_022	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Pituitary gland		Chromophobe Adenoma	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_023	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma, Malignant	
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Metamorphosis, Fatty	
Lung		Calcification, Focal	
Mammary gland		Lactation	
Stomach		Basal-Cell Carcinoma	
		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_025	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Mesenteric Artery Nos	Calcification, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Necrosis, Focal	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_026

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 15000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney		Glomerulonephritis, Chronic
Lung		Granuloma, Nos
Stomach		Squamous Cell Papilloma
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_027	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Pituitary gland		Chromophobe Adenoma	
Stomach		Inflammation, Acute	
Thyroid		C-Cell Carcinoma	
Uterus	Endometrium	Atrophy, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_028	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Coronary Artery Nos	Calcification, Nos	
	Pulmonary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Necrosis, Focal	
Parathyroid gland		Hyperplasia, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_029	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Intestine Small	Ileum	Hyperplasia, Lymphoid	
Kidney		Nephrosis, Nos	
Liver		Neoplastic Nodule	
Lung		Pneumonia, Chronic Murine	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_030	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Stomach		Calcification, Focal	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_031	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Kidney		Nephrosis, Nos	
Larynx		Inflammation, Chronic	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Fibroadenoma	
Pituitary gland		Chromophobe Adenoma	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_032	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Necrosis, Focal	
Lung		Calcification, Focal	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_033	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Lung		Calcification, Focal	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Calcification, Nos	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_034	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Lung		Calcification, Focal	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Stomach		Calcification, Focal	
Uterus	Myometrium	Abscess, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_035	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_036	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
	Mesenteric Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Urinary bladder		Transitional-Cell Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_037	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Blood vessel	Aorta Nos	Calcification, Medial	
Bone marrow		Osteosclerosis	
Eye	Cornea	Inflammation, Nos	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Stomach		Calcification, Focal	
Thyroid		Cyst, Ultimobranchial	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_038	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Heart		Calcification, Focal	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Parathyroid gland		Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_039	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Bone marrow		Osteosclerosis	
Brain	Meninges	Inflammation, Acute	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Pancreas		Calcification, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_040	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Coronary Artery Nos	Calcification, Nos	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Calcification, Focal	
Spleen		Calcification, Nos	
Stomach		Calcification, Focal	
Thyroid		Hyperplasia, C Cell	
Uterus	Fallopian Tube	Abscess, Nos	
		Pyometra	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_041	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Brain	Meninges	Inflammation, Acute	
Heart		Calcification, Focal	
Kidney		Nephrosis, Nos	
Mammary gland		Fibroadenoma	
Parathyroid gland		Hyperplasia, Nos	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_043	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Moribund Sacrifice	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
Stomach		Calcification, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_044	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart	Myocardium Nos	Degeneration, Nos Thrombus, Mural	
Kidney		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Ovary		Abscess, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_045	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Bone marrow		Osteosclerosis	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland		Chromophobe Adenoma	
Stomach		Calcification, Focal	
Thyroid		C-Cell Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_046	TRT#: 4	SEX: Female	DAY ON TEST:
	DOSE: 15000 PPM	DISP: Natural Death	HISTO:
OBSERVATIONS			
Blood vessel	Aorta Nos	Calcification, Medial	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Larynx		Inflammation, Chronic	
Lung		Calcification, Focal	
		Pneumonia, Chronic Murine	
Mammary gland		Lactation	
Parathyroid gland		Hyperplasia, Nos	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Nitroanthranilic acid

CAS Number: 619-17-0

Date Report Requested: 10/26/2014

Time Report Requested: 16:22:05

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_047

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 15000 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Larynx

Lung

Ovary

Inflammation, Chronic

Pneumonia, Chronic Murine

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4_048	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Kidney		Nephrosis, Nos	
Lung		Pneumonia, Chronic Murine	
Mammary gland		Fibroadenoma	
Pituitary gland		Adenoma, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Body Cavities	Mesothelioma, Nos	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_049	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Medulla	Hyperplasia, Nos	
Blood vessel	Coronary Artery Nos	Calcification, Nos	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Intestine Large	Colon	Calcification, Focal	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Lung		Calcification, Focal	
Mammary gland		Lactation	
Pancreas		Calcification, Nos	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Calcification, Nos	
Stomach		Calcification, Focal	
Uterus		Endometrial Stromal Polyp	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C01945
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Nitroanthranilic acid
CAS Number: 619-17-0

Date Report Requested: 10/26/2014
Time Report Requested: 16:22:05
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_050	TRT#: 4 DOSE: 15000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland		Pheochromocytoma	
Blood vessel	Aorta Nos	Calcification, Medial	
	Coronary Artery Nos	Calcification, Nos	
Heart		Calcification, Focal	
	Myocardium Nos	Degeneration, Nos	
Kidney		Calcification, Focal	
		Nephrosis, Nos	
Liver		Congestion, Chronic Passive	
Lung		Calcification, Focal	
Parathyroid gland		Hyperplasia, Nos	
Salivary gland		Calcification, Nos	
Stomach		Calcification, Focal	
Thyroid		Cyst, Ultimobranchial	
Uterus	Endometrium	Inflammation, Acute/Chronic	
PRIMARY CAUSE OF DEATH	-		

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE