

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

C Number:	C92004
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 61	TRT#: 2 DOSE: 07M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-166
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 62

TRT#: 2

SEX: Male

DAY ON TEST: 653

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Liver

* Lymph Node, Mesenteric

* Parathyroid Gland

MISSING

* Adrenal Cortex

* Adrenal Medulla

* Urinary Bladder

OBSERVATIONS

* Heart

Fibrosis

Minimal

* Kidney

Hydronephrosis

Minimal

Nephropathy

Moderate

[Nephropathy TGLS = 1-2]

* Lung

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 63

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pituitary Gland

* Heart

* Islets, Pancreatic

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Kidney

Infiltration Cellular
Nephropathy

Lymphocyte, Minimal
Minimal

[Nephropathy TGLS = 3-2]

* Liver

Basophilic Focus
Degeneration

Minimal
Cystic, Minimal

* Lung

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Hemorrhage

Minimal

* Pancreas

Acinus

Degeneration

Minimal

Artery

Polyarteritis

Marked

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Mesothelioma Malignant

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 64

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Parathyroid Gland

* Pituitary Gland

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

* Liver

Degeneration

Cystic, Mild

Centrilobular

Fatty Change

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-1]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic, Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

Mammary Gland

Adenocarcinoma

[Adenocarcinoma TGLS = 1-8]

* Pancreas

Leukemia Mononuclear

Preputial Gland

Inflammation

Chronic, Moderate

[Inflammation TGLS = 2-9]

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 6-10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 7-7,5-7]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 64

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-186

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 65	TRT#: 2 DOSE: 07M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-333
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Spleen	* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 66

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney

Nephropathy

Moderate

[Nephropathy TGLS = 5-2]

* Liver

Degeneration

Cystic, Marked

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Degeneration TGLS = 4-1]

* Lung

Inflammation

Chronic, Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1,2-4]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Moderate

* Pituitary Gland

Pars Distalis

Cyst

Minimal

* Spleen

Fibrosis

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 67

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Liver

* Lung

* Lymph Node, Mesenteric

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

Thrombosis

Minimal

Thrombosis

Moderate

[Pheochromocytoma Benign TGLS = 2-3,3-8]

* Heart

Fibrosis

Minimal

Mineralization

Mild

* Kidney

Mineralization

Mild

Nephropathy

Marked

[Nephropathy TGLS = 1-2]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-3]

* Spleen

Necrosis

Mild

* Testes

Atrophy

Moderate

* Thyroid Gland

Follicle

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 68

TRT#: 2

SEX: Male

DAY ON TEST: 421

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pituitary Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

Necrosis

Mild

Vacuolization Cytoplasmic

Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Necrosis

Moderate

Nephropathy

Minimal

Pigmentation

Marked

* Liver

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Thrombosis

Minimal

Mesentery

Fat

Necrosis

Moderate

[Necrosis TGLS = 3-8]

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 69	TRT#: 2 DOSE: 07M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-194
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Pancreas	* Thyroid Gland
* Urinary Bladder			

MISSING

* Thymus

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 71

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	Mild
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 8-1]			
* Lung		Hyperplasia	Adenomatous, Moderate
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Preputial Gland		Adenoma	
[Adenoma TGLS = 2-9]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-8]			
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
[Fibrosis TGLS = 8-10]			
[Leukemia Mononuclear TGLS = 5-1,6-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7,4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 72

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Islets, Pancreatic

Adenoma

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Minimal

[Nephropathy TGLS = 2-2]

* Liver

Centrilobular

Degeneration

Minimal

Degeneration

Cystic, Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Artery

Leukemia Mononuclear

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Cyst

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 625

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Thyroid Gland

* Islets, Pancreatic
* Urinary Bladder

* Lymph Node, Mesenteric

* Spleen

OBSERVATIONS

* Adrenal Medulla
* Heart
* Kidney

Hyperplasia
Fibrosis
Hyperplasia
Nephropathy

Focal, Minimal
Minimal
Tubular, Mild
Marked

[Nephropathy TGLS = 1-2]

* Liver

Angiectasis
Basophilic Focus
Degeneration
Hyperplasia
Infiltration Cellular

Minimal
Minimal
Cystic, Minimal
Minimal
Lymphocyte, Minimal

* Lung

Bile Duct

Congestion
Hemorrhage
Inflammation

Minimal
Mild
Chronic, Minimal

* Pancreas
* Parathyroid Gland

Acinus

Degeneration
Adenoma
Hyperplasia

Minimal
Moderate

[Adenoma TGLS = 2-6,6.1RE]

* Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Cyst

Moderate

* Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Minimal

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 74

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
		Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-1]		
* Lung	Artery	Mineralization	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-6]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6,7-7]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 75	TRT#: 2 DOSE: 07M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 722 HISTO: 93-42128-336
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Spleen	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-2]			
* Liver		Eosinophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 76	TRT#: 2 DOSE: 07M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-112
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Thyroid Gland	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Heart		Fibrosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
* Spleen		Fibrosis	Marked
		Osteosarcoma	
[Osteosarcoma TGLS = 5-9,10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 77

TRT#: 2

SEX: Male

DAY ON TEST: 583

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Mild

* Liver

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Minimal

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 78

TRT#: 2

SEX: Male

DAY ON TEST: 590

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

OBSERVATIONS

* Kidney

Nephropathy

Minimal

* Liver

Angiectasis

Mild

Eosinophilic Focus

Minimal

Leukemia Mononuclear

* Lung

Alveolar/Bronchiolar Adenoma

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

Squamous Cell Carcinoma

* Pancreas

Atrophy

Minimal

Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 79

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
Stomach, Glandular

* Heart
* Thyroid Gland

* Islets, Pancreatic

Stomach, Forestomach

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Medulla

Hyperplasia
Leukemia Mononuclear
Pheochromocytoma Benign

Mild

* Kidney

Leukemia Mononuclear
Nephropathy
Pigmentation

Moderate
Mild

[Nephropathy TGLS = 9-2]

* Liver

Angiectasis
Degeneration
Hepatocellular Adenoma
Hyperplasia
Leukemia Mononuclear

Mild
Cystic, Moderate

Bile Duct

[Hepatocellular Adenoma TGLS = 17-9]

[Hyperplasia TGLS = 14-1]

* Lung

Leukemia Mononuclear
Leukemia Mononuclear

* Lymph Node, Mesenteric

[Leukemia Mononuclear TGLS = 1-8]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 12-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3,5-7]

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 79

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-116

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 80	TRT#: 2 DOSE: 07M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-111
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Spleen	* Thyroid Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	Mild
* Lung		Inflammation	Chronic, Minimal
* Pancreas	Artery	Mineralization	Minimal
	Acinus	Degeneration	Minimal
	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-7]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 81

TRT#: 2

SEX: Male

DAY ON TEST: 653

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Lymph Node, Mesenteric	* Spleen	* Thyroid Gland
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Marked
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-2]			
* Liver		Degeneration	Cystic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 82

TRT#: 2

SEX: Male

DAY ON TEST: 600

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

[Nephropathy TGLS = 2-2]

* Liver

Centrilobular

Degeneration

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Necrosis

Focal, Minimal

[Degeneration TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 4-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 83

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lung

* Lymph Node, Mesenteric

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney

Nephropathy

Marked

[Nephropathy TGLS = 1-2]

* Liver

Eosinophilic Focus

Minimal

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 84

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

* Testes

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Heart

Schwannoma Malignant

* Kidney

Nephropathy

Moderate

[Nephropathy TGLS = 2-2]

* Liver

Degeneration

Cystic, Minimal

Necrosis

Marked

[Necrosis TGLS = 1-1]

* Lung

Hyperplasia

Adenomatous, Moderate

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Minimal

Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 3-8]

* Spleen

Inflammation

Acute, Mild

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 85	TRT#: 2 DOSE: 07M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-339
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Islets, Pancreatic	* Parathyroid Gland	* Thyroid Gland
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Degeneration	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
Skin		Fibroma	
		[Fibroma TGLS = 1-8]	
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 575

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

Necrosis

Minimal

Vacuolization Cytoplasmic

Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Nephropathy

Mild

Pigmentation

Moderate

* Liver

Degeneration

Cystic, Mild

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Hemorrhage

Minimal

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

Fibroadenoma

Mammary Gland

[Fibroadenoma TGLS = 3-8]

* Pancreas

Acinus

Degeneration

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

Cystadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 575

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-016

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 87

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla

Leukemia Mononuclear
Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Kidney

Cyst Minimal
Nephropathy Marked
Pigmentation Minimal

[Nephropathy TGLS = 4-2]

* Liver

Centrilobular
Bile Duct

Degeneration Mild
Hyperplasia Marked
Hyperplasia Mild
Leukemia Mononuclear

[Hyperplasia TGLS = 3-8]

[Hyperplasia TGLS = 2-1]

* Lung

Leukemia Mononuclear
Mineralization

Artery

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Minimal

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5,6-7]

* Thyroid Gland

C Cell

Adenoma

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 87

TRT#: 2

SEX: Male

DAY ON TEST: 726

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-137

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 88

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-9]			
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 89

TRT#: 2

SEX: Male

DAY ON TEST: 628

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Hyperplasia

Tubular, Minimal

Leukemia Mononuclear

Nephropathy

Moderate

Pigmentation

Mild

[Nephropathy TGLS = 3-2]

* Liver

Centrilobular

Degeneration

Mild

Degeneration

Cystic, Minimal

Centrilobular

Fatty Change

Mild

Leukemia Mononuclear

[Degeneration TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Moderate

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

Follicle

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 90	TRT#: 2 DOSE: 07M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-340
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Spleen	* Thyroid Gland	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 2-2]		
* Liver		Degeneration	Cystic, Minimal
	Centrilobular	Fatty Change	Minimal
* Lung	Artery	Mineralization	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 91

TRT#: 2

SEX: Male

DAY ON TEST: 625

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Thyroid Gland			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
		Pigmentation	Mild
* Liver	Centrilobular	Degeneration	Minimal
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-1]	
* Testes	Bilateral, Interstit Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 92

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Necrosis

Moderate

* Kidney

Nephropathy

Mild

Pigmentation

Marked

* Liver

Fatty Change

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 93

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Spleen	* Thyroid Gland	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Fibrosis	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-2]			
* Liver		Degeneration	Cystic, Minimal
* Lung	Artery	Mineralization	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-10]			
Skin		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 6-8,1-10]			
Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 5-9]			
* Testes	Interstit Cell	Adenoma	
	Bilateral, Seminif Tub	Degeneration	Marked
[Adenoma TGLS = 4-7]			
[Degeneration TGLS = 3-7]			
* Thymus		Atrophy	Mild
		Thymoma Benign	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 94

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Thyroid Gland

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Mild

Leukemia Mononuclear

* Adrenal Medulla

Hyperplasia

Mild

Leukemia Mononuclear

Bilateral

Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Degeneration

Cystic, Moderate

* Liver

Bile Duct

Hyperplasia

Marked

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Inflammation

Chronic, Mild

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Leukemia Mononuclear

Skin

Melanoma Malignant

[Melanoma Malignant TGLS = 1-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 94

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-092

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

* Thymus

Note: Effaced by Mononuclear Cell Leukemia

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 95

TRT#: 2

SEX: Male

DAY ON TEST: 709

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Pituitary Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Minimal

Leukemia Mononuclear

* Kidney

Nephropathy

Mild

* Liver

Degeneration

Cystic, Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

Mesentery

Fat

Necrosis

Mild

* Pancreas

Acinus

Degeneration

Minimal

Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 3-10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 96

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Parathyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Heart

Schwannoma Malignant

Thrombosis

Marked

* Kidney

Nephropathy

Mild

[Nephropathy TGLS = 2-2]

* Liver

Degeneration

Cystic, Minimal

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

Acinus

Hyperplasia

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell, Seminif Tub

Degeneration

Minimal

Interstit Cell

Hyperplasia

Minimal

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 97

TRT#: 2

SEX: Male

DAY ON TEST: 624

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Degeneration

Mild

Centrilobular

Fatty Change

Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Degeneration TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 98

TRT#: 2

SEX: Male

DAY ON TEST: 712

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-344

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mesenteric

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Spleen

* Testes

* Thymus

* Thyroid Gland

* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

Animal Note: No tissue available except tail.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Heart
* Thyroid Gland

* Islets, Pancreatic
* Urinary Bladder

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Kidney

Hyperplasia
Nephropathy

Mild
Moderate

[Nephropathy TGLS = 2-2]

* Liver
* Lung

Eosinophilic Focus
Inflammation
Mineralization
Adenoma

Minimal
Chronic, Minimal
Minimal

Artery

Mammary Gland
[Adenoma TGLS = 1-8]

* Pituitary Gland
[Adenoma TGLS = 5-3]

Pars Distalis

Adenoma

Preputial Gland
[Adenoma TGLS = 1-8]

Adenoma

* Spleen

Leukemia Mononuclear

* Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

[Adenoma TGLS = 3-7,4-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 100

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Spleen

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart

Fibrosis

Mild

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

* Lung

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

* Pituitary Gland

Artery

Mineralization

Minimal

Pars Distalis

Hyperplasia

Minimal

Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2,3-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 101

TRT#: 2

SEX: Male

DAY ON TEST: 450

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Spleen

* Testes

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 1-3]

* Heart

Fibrosis

Minimal

* Kidney

Nephropathy

Mild

[Nephropathy TGLS = 2-2]

* Liver

Periportal

Fatty Change

Mild

Bile Duct

Hyperplasia

Minimal

* Lung

Alveolar/Bronchiolar Carcinoma

Congestion

Mild

[Alveolar/Bronchiolar Carcinoma TGLS = 3-4]

Mesentery

Artery

Inflammation

Chronic, Marked

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-3]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 102

TRT#: 2

SEX: Male

DAY ON TEST: 639

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hyperplasia
Vacuolization Cytoplasmic

Focal, Minimal
Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

Thrombosis

Mild

* Kidney

Nephropathy

Mild

Pigmentation

Mild

* Liver

Centrilobular

Degeneration

Mild

Degeneration

Cystic, Mild

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 103

TRT#: 2

SEX: Male

DAY ON TEST: 701

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Mild

* Kidney

Nephropathy

Moderate

[Nephropathy TGLS = 2-2]

* Liver

Periportal

Fatty Change

Marked

* Lung

Hyperplasia

Adenomatous, Minimal

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Mild

* Parathyroid Gland

Hyperplasia

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-3]

Skin

Fibroma

[Fibroma TGLS = 1-8]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Testes

Interstitial Cell

Adenoma

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 104

TRT#: 2

SEX: Male

DAY ON TEST: 575

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pituitary Gland

* Adrenal Medulla
* Thyroid Gland

* Islets, Pancreatic
* Urinary Bladder

* Parathyroid Gland

OBSERVATIONS

* Heart
* Kidney

Leukemia Mononuclear
Leukemia Mononuclear

* Liver

Centrilobular

Nephropathy
Degeneration

Mild

Minimal

Bile Duct

Degeneration

Cystic, Minimal

Hyperplasia

Moderate

Leukemia Mononuclear

[Degeneration TGLS = 2-1]

* Lung

Hyperplasia

Adenomatous, Marked

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 105	TRT#: 2 DOSE: 07M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-108
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Spleen		

MISSING

* Thymus

OBSERVATIONS

* Heart		Fibrosis	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 106

TRT#: 2

SEX: Male

DAY ON TEST: 541

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Hydronephrosis

Minimal

Leukemia Mononuclear

Pigmentation

Mild

[Leukemia Mononuclear TGLS = 3-2]

* Liver

Bile Duct

Fibrosis

Minimal

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-1]

* Lung

Artery

Leukemia Mononuclear

Mineralization

Minimal

Pigmentation

Hematoidin, Mild

[Leukemia Mononuclear TGLS = 5-4]

Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

Leukemia Mononuclear

* Parathyroid Gland

Leukemia Mononuclear

Metastatic (Spleen)

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Testes

Interstit Cell

Adenoma

Bilateral, Interstit Cell

Hyperplasia

Minimal

Interstit Cell

Inflammation

Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 106

TRT#: 2
DOSE: 07M

SEX: Male
DISP: Natural Death

DAY ON TEST: 541
HISTO: 93-42128-050

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Leukemia Mononuclear
* Thyroid Gland	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 107

TRT#: 2

SEX: Male

DAY ON TEST: 721

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Pituitary Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 2-3]

* Heart

Thrombosis

Moderate

[Thrombosis TGLS = 5-5]

* Kidney

Nephropathy

Minimal

[Nephropathy TGLS = 3-2]

* Liver

Degeneration

Cystic, Mild

Bile Duct

Hyperplasia

Minimal

Necrosis

Moderate

[Necrosis TGLS = 4-1]

* Lung

Artery

Mineralization

Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 604

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

MISSING

Preputial Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Hyperplasia

Mild

Leukemia Mononuclear

Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Mild

[Nephropathy TGLS = 1-2]

* Liver

Centrilobular

Degeneration

Mild

Bile Duct

Hyperplasia

Marked

Leukemia Mononuclear

[Degeneration TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-8]

* Pancreas

Atrophy

Minimal

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

* Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 109

TRT#: 2

SEX: Male

DAY ON TEST: 609

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

Brain

Pheochromocytoma Benign

Hemorrhage

Marked

Cerebellum

Leukemia Mononuclear

[Hemorrhage TGLS = 3-8]

* Heart

Leukemia Mononuclear

* Islets, Pancreatic

Adenoma

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Mild

* Liver

Centrilobular

Degeneration

Minimal

Degeneration

Cystic, Mild

Bile Duct

Hyperplasia

Marked

Leukemia Mononuclear

* Lung

Inflammation

Chronic, Moderate

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

Mesentery

Fat

Necrosis

Moderate

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 109

TRT#: 2
DOSE: 07M

SEX: Male
DISP: Natural Death

DAY ON TEST: 609
HISTO: 93-42128-002

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Hemorrhage
Leukemia Mononuclear

Mild

[Hemorrhage TGLS = 2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 110

TRT#: 2
DOSE: 07M

SEX: Male
DISP: Natural Death

DAY ON TEST: 485
HISTO: 93-42128-024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mesenteric	* Spleen
* Testes	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland	
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AUTO PRECLUDES DIAG.

* Islets, Pancreatic	* Pancreas		
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OBSERVATIONS

* Heart		Fibrosis	Minimal
* Kidney		Congestion	Mild
* Liver		Basophilic Focus	Minimal
* Lung		Congestion	Mild
* Pituitary Gland	Artery	Mineralization	Minimal
[Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:28
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 112	TRT#: 2 DOSE: 07M	SEX: Male DISP: Natural Death	DAY ON TEST: 624 HISTO: 93-42128-055
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Spleen	* Testes
* Thyroid Gland	* Urinary Bladder		

MISSING			
* Parathyroid Gland			

OBSERVATIONS			
* Adrenal Cortex		Congestion	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Fibrosis	Minimal
* Kidney		Cyst	Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 2-2]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Congestion	Minimal
		Necrosis	Minimal
[Congestion TGLS = 3-1]			
* Lung		Congestion	Mild
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Hair Follicle	Atrophy	Moderate
[Atrophy TGLS = 1-8]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 113

TRT#: 2

SEX: Male

DAY ON TEST: 583

DOSE: 07M

DISP: Moribund Sacrifice

HISTO: 93-42128-009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear
Vacuolization Cytoplasmic

Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Moderate

Pigmentation

Moderate

* Liver

Centrilobular

Fatty Change

Marked

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Fatty Change TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

Peritoneum

Tunica Vaginal

Mesothelioma Malignant

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

Stomach, Forestomach

Inflammation

Chronic, Marked

* Testes

Interstit Cell

Adenoma

Bilateral, Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 114

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Lung

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

[Hyperplasia TGLS = 4-3]

* Islets, Pancreatic

Adenoma

[Adenoma TGLS = 1-5]

* Kidney

Nephropathy

Marked

* Liver

Degeneration

Cystic, Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Parathyroid Gland

Hyperplasia

Mild

* Spleen

Fibrosis

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

Stomach, Forestomach

Ulcer

Moderate

[Ulcer TGLS = 5-8]

* Testes

Bilateral, Interstit Cell

Hyperplasia

Minimal

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Moderate

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 115

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Spleen

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver

Hyperplasia
Nephropathy
Basophilic Focus
Hepatocellular Adenoma

Minimal
Moderate
Minimal

[Hepatocellular Adenoma TGLS = 5-8]

* Lung
Alveolus
Artery
Mesentery
* Pancreas
Acinus
* Pituitary Gland
Pars Distalis
* Testes
Bilateral, Interstit Cell
Tunic

Infiltration Cellular
Mineralization
Mesothelioma Malignant
Degeneration
Angiectasis
Adenoma
Mesothelioma Malignant

Histiocyte, Minimal
Minimal
Metastatic (Testes)
Minimal
Mild

[Adenoma TGLS = 1,3-7]

* Thymus
* Thyroid Gland
* Urinary Bladder

Atrophy
Hyperplasia
Infiltration Cellular

Mild
Minimal
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 116

TRT#: 2
DOSE: 07M

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 93-42128-271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Urinary Bladder

* Adrenal Medulla

* Lymph Node, Mesenteric

* Parathyroid Gland

OBSERVATIONS

* Heart
* Islets, Pancreatic
* Kidney
* Liver

Cardiomyopathy
Adenoma
Nephropathy
Eosinophilic Focus

Minimal
Moderate
Minimal

* Lung
* Pancreas
* Pituitary Gland
[Adenoma TGLS = 2-3]

Artery
Acinus
Pars Distalis

Mineralization
Degeneration
Adenoma

Minimal
Mild

* Spleen
* Testes
[Adenoma TGLS = 1-7]

Interstit Cell
Interstit Cell

Leukemia Mononuclear
Adenoma
Hyperplasia

Mild

* Thymus
* Thyroid Gland

C Cell

Atrophy
Hyperplasia

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 117

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
Penis

* Islets, Pancreatic
* Spleen

* Liver
* Urinary Bladder

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla

Hyperplasia
Pheochromocytoma Malignant

Mild

[Pheochromocytoma Malignant TGLS = 1-10]

* Heart

Fibrosis

Minimal

* Kidney

Nephropathy

Moderate

* Lung

Alveolus
Artery

Infiltration Cellular
Mineralization

Histiocyte, Minimal

Minimal

* Lymph Node, Mesenteric
Mesentery

Hyperplasia
Lipoma

Lymphoid, Mild

[Lipoma TGLS = 2-9]

* Pancreas

Acinus

Hyperplasia

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3,4-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 118

TRT#: 2

SEX: Male

DAY ON TEST: 651

DOSE: 07M

DISP: Natural Death

HISTO: 93-42128-347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Moderate

* Liver

Centrilobular

Degeneration

Minimal

Degeneration

Cystic, Mild

Centrilobular

Fatty Change

Mild

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Hemorrhage

Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 119

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Spleen

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

* Adrenal Medulla

Pheochromocytoma Benign

* Heart

Fibrosis

Mild

* Kidney

Inflammation

Chronic, Mild

Nephropathy

Mild

[Inflammation TGLS = 1-2]

* Liver

Basophilic Focus

Mild

Eosinophilic Focus

Minimal

Hepatocellular Carcinoma

[Basophilic Focus TGLS = 9-10]

[Hepatocellular Carcinoma TGLS = 7-8]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic, Minimal

* Pancreas

Artery

Mineralization

Minimal

* Pituitary Gland

Acinus

Hyperplasia

Mild

Pars Distalis

Adenoma

[Adenoma TGLS = 11-3]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7,5-10]

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 120

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 07M

DISP: Terminal Sacrifice

HISTO: 93-42128-273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Thyroid Gland

* Lymph Node, Mesenteric

* Pancreas

* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

[Pheochromocytoma Benign TGLS = 3-3]

Pheochromocytoma Benign

* Heart

Cardiomyopathy

Minimal

* Islets, Pancreatic

Hyperplasia

Mild

* Kidney

Nephropathy

Moderate

* Liver

Basophilic Focus

Minimal

Degeneration

Cystic, Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Pars Distalis

Adenoma

* Pituitary Gland

[Adenoma TGLS = 5-3]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Thymoma Benign

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 181

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Adrenal Medulla

Hyperplasia

Minimal

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Mild

* Liver

Eosinophilic Focus

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

[Leukemia Mononuclear TGLS = 3-4]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 182

TRT#: 4

SEX: Male

DAY ON TEST: 720

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Thyroid Gland

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Bilateral

Leukemia Mononuclear
Pheochromocytoma Benign

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-2]

* Liver

Centrilobular
Bile Duct

Fatty Change
Hyperplasia
Leukemia Mononuclear
Necrosis

Moderate
Mild

* Lung

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Leukemia Mononuclear

[Adenoma TGLS = 3-3]

Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-8]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:28
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 183

TRT#: 4
DOSE: 91M

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 93-42128-155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 184

TRT#: 4

SEX: Male

DAY ON TEST: 722

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Adrenal Medulla

Hyperplasia

Mild

* Heart

Leukemia Mononuclear

Leukemia Mononuclear

Thrombosis

Moderate

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Degeneration

Mild

Centrilobular

Fatty Change

Mild

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

* Lung

Hemorrhage

Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

[Leukemia Mononuclear TGLS = 2-4]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 185

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Urinary Bladder

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Angiectasis

Marked

Thrombosis

Minimal

* Heart

Cardiomyopathy

Minimal

* Islets, Pancreatic

Leukemia Mononuclear

Metastatic (Spleen)

* Kidney

Cyst

Mild

Leukemia Mononuclear

Nephropathy

Minimal

* Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 4-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:28

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 186

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Pheochromocytoma Benign

* Heart

Cardiomyopathy

Minimal

* Islets, Pancreatic

Adenoma

* Kidney

Nephropathy

Minimal

* Liver

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Mild

Hyperplasia

Focal, Moderate

Leukemia Mononuclear

[Hyperplasia TGLS = 2-8,3-9]

* Lung

Hyperplasia

Adenomatous, Mild

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 187

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Hyperplasia

Mild

* Heart

Leukemia Mononuclear

Cardiomyopathy

Minimal

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

* Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1b]

* Testes

Interstitial Cell

Adenoma

[Adenoma TGLS = 6-7]

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 188

TRT#: 4

SEX: Male

DAY ON TEST: 575

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Kidney

Nephropathy

Moderate

[Nephropathy TGLS = 3-2]

* Liver

Periportal

Fatty Change

Marked

Bile Duct

Hyperplasia

Minimal

[Fatty Change TGLS = 1-1]

* Lung

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Hemosiderin, Mild

* Testes

Bilateral, Seminif Tub

Degeneration

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 189

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Parathyroid Gland

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Spleen

* Lymph Node, Mesenteric
* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Hyperplasia
Nephropathy
Basophilic Focus
Eosinophilic Focus
Inflammation

Minimal
Minimal
Minimal
Minimal
Chronic, Minimal

* Lung

Alveolus

Infiltration Cellular
Inflammation

Histiocyte, Minimal
Chronic, Minimal

* Pancreas

Artery
Acinus
Acinus

Mineralization
Degeneration
Hyperplasia

Minimal
Minimal
Minimal

Preputial Gland

Adenoma
Inflammation

Chronic, Minimal

[Adenoma TGLS = 1-9]

[Inflammation TGLS = 2-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 190

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

* Pancreas

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Adrenal Medulla
* Heart

Leukemia Mononuclear
Hyperplasia
Fibrosis

Mild
Minimal

* Kidney
* Liver

Leukemia Mononuclear
Nephropathy
Cyst

Minimal
Moderate

Centrilobular
Bile Duct

Degeneration
Hyperplasia

Mild
Mild

* Lung

Alveolus

Leukemia Mononuclear
Infiltration Cellular
Leukemia Mononuclear

Histiocyte, Minimal

* Pituitary Gland
* Spleen

Artery
Pars Distalis

Mineralization
Hyperplasia
Leukemia Mononuclear

Minimal
Minimal

[Leukemia Mononuclear TGLS = 1-8]

* Testes
* Thymus

Bilateral, Interstit Cell

Adenoma
Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 191

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 192

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Kidney	* Lymph Node, Mesenteric	* Pituitary Gland
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
* Islets, Pancreatic		Adenoma	
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8,2-9]			
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,6-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 193

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Adrenal Medulla
* Thyroid Gland

* Islets, Pancreatic

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Fibrosis	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Hyperplasia	Adenomatous, Moderate
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-8]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 194

TRT#: 4

SEX: Male

DAY ON TEST: 708

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Thyroid Gland	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
		Thrombosis	Moderate
	[Pheochromocytoma Benign TGLS = 2-3]		
* Kidney		Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 3-2]		
* Liver	Centrilobular	Fatty Change	Mild
	[Fatty Change TGLS = 4-1]		
* Lung	Artery	Mineralization	Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 1-5,8]		
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 195

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas
* Thyroid Gland

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Pituitary Gland

* Lymph Node, Mesenteric
* Spleen

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver
* Lung
* Testes
 [Adenoma TGLS = 1,2-7]
* Thymus
* Urinary Bladder

Artery
Bilateral, Interstit Cell

Pheochromocytoma Benign
Nephropathy
Eosinophilic Focus
Mineralization
Adenoma

Minimal
Minimal
Minimal

Atrophy
Infiltration Cellular

Mild
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 196

TRT#: 4

SEX: Male

DAY ON TEST: 545

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Pancreas

* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Mild

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

Thrombosis

Mild

* Kidney

Renal Tubule

Degeneration

Mild

Leukemia Mononuclear

Pigmentation

Minimal

* Liver

Centrilobular

Fatty Change

Mild

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-2]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Minimal

* Thymus

Atrophy

Mild

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 197	TRT#: 4 DOSE: 91M	SEX: Male DISP: Natural Death	DAY ON TEST: 365 HISTO: 93-42128-027
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Pancreas	* Pituitary Gland	* Thyroid Gland
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus Leukemia Mononuclear	Minimal
* Lung	Artery	Mineralization Leukemia Mononuclear	Minimal
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 3-6]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 198

TRT#: 4

SEX: Male

DAY ON TEST: 629

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Cyst

Moderate

Leukemia Mononuclear

Nephropathy

Minimal

[Nephropathy TGLS = 4-2]

* Liver

Degeneration

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Necrosis

Minimal

[Degeneration TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

Leukemia Mononuclear

* Parathyroid Gland

Leukemia Mononuclear

Metastatic (Spleen)

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

[Adenoma TGLS = 5-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 198

TRT#: 4

SEX: Male

DAY ON TEST: 629

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-068

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 199	TRT#: 4 DOSE: 91M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-268
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Spleen	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Minimal
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGSL = 1,2-7]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 200

TRT#: 4

SEX: Male

DAY ON TEST: 639

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Parathyroid Gland

* Spleen

* Urinary Bladder

OBSERVATIONS

* Kidney

Nephropathy

Mild

* Liver

Bile Duct

Hyperplasia

Minimal

* Lung

Inflammation

Chronic, Minimal

Hyperplasia

Adenomatous, Moderate

* Lymph Node, Mesenteric

Artery

Mineralization

Minimal

* Pancreas

Acinus

Hemorrhage

Mild

* Pituitary Gland

Pars Distalis

Degeneration

Minimal

[Adenoma TGLS = 1-3]

Adenoma

* Testes

Bilateral, Interstit Cell

Hyperplasia

Minimal

Interstit Cell

Mesothelioma Malignant

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 201

TRT#: 4

SEX: Male

DAY ON TEST: 726

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Lymph Node, Mesenteric

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Islets, Pancreatic

Hyperplasia

Moderate

* Kidney

Nephropathy

Mild

* Liver

Clear Cell Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

* Lung

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

Preputial Gland

Adenoma

[Adenoma TGLS = 9-8]

Skin

Basal Cell Carcinoma

[Basal Cell Carcinoma TGLS = 4,5-9]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,2-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 202

TRT#: 4

SEX: Male

DAY ON TEST: 726

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 2-3]

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

* Lung

Bile Duct

Hyperplasia

Minimal

* Pancreas

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Polyarteritis

Mild

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Fibrosis

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 203

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Mild

* Heart

Thrombosis

Moderate

* Kidney

Nephropathy

Minimal

* Liver

Centrilobular

Fatty Change

Moderate

Bile Duct

Hepatocellular Adenoma

Hyperplasia

Mild

Leukemia Mononuclear

[Hepatocellular Adenoma TGLS = 2-8]

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Mediastinal

Leukemia Mononuclear

Lymph Node

[Leukemia Mononuclear TGLS = 3-6]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 204

TRT#: 4

SEX: Male

DAY ON TEST: 726

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Urinary Bladder

* Adrenal Medulla
* Pancreas

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Spleen

OBSERVATIONS

* Kidney
* Liver

* Lung
* Pituitary Gland
* Testes
 [Adenoma TGLS = 1-7]
* Thymus
* Thyroid Gland

Bile Duct
Artery
Pars Distalis
Bilateral, Interstit Cell

Nephropathy
Eosinophilic Focus
Hyperplasia
Mineralization
Adenoma
Adenoma

Atrophy
Adenoma

Mild
Mild
Minimal
Minimal

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 205

TRT#: 4

SEX: Male

DAY ON TEST: 726

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric

* Adrenal Medulla
* Pancreas

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Thyroid Gland

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
* Lung	Artery	Mineralization	Minimal
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-8]			
* Spleen		Fibrosis	Minimal
[Fibrosis TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7,4-7]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 206

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Urinary Bladder

* Kidney

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Liver

Pheochromocytoma Benign
Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear

Mild
Minimal

[Leukemia Mononuclear TGLS = 1-1]

* Lung
* Pancreas
* Spleen
* Testes

Artery
Acinus
Bilateral, Interstit Cell

Mineralization
Degeneration
Leukemia Mononuclear
Adenoma

Minimal
Minimal

[Adenoma TGLS = 2,3-7]

* Thymus
* Thyroid Gland

C Cell

Atrophy
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 207	TRT#: 4 DOSE: 91M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-209
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic, Mild
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 208

TRT#: 4

SEX: Male

DAY ON TEST: 603

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Spleen

* Adrenal Medulla
* Pancreas
* Thyroid Gland

* Heart
* Parathyroid Gland
* Urinary Bladder

* Islets, Pancreatic
* Pituitary Gland

MISSING

* Thymus

OBSERVATIONS

Brain		Hemorrhage	Moderate
		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Congestion	Mild
	Artery	Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 209

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pituitary Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Kidney

Nephropathy

Moderate

* Liver

Degeneration

Cystic, Moderate

Bile Duct

Hyperplasia

Mild

Hyperplasia

Mild

Leukemia Mononuclear

[Hyperplasia TGLS = 7-8]

[Leukemia Mononuclear TGLS = 1-1]

* Lung

Hyperplasia

Adenomatous, Moderate

Inflammation

Chronic, Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Fibrosis

Minimal

Leukemia Mononuclear

[Fibrosis TGLS = 5-9]

[Leukemia Mononuclear TGLS = 3-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 9,11-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 210

TRT#: 4

SEX: Male

DAY ON TEST: 709

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Minimal

* Heart

Leukemia Mononuclear

* Kidney

Nephropathy

Minimal

* Liver

Bile Duct

Hyperplasia

Moderate

* Lung

Leukemia Mononuclear

Leukemia Mononuclear

Artery

Mineralization

Minimal

[Leukemia Mononuclear TGLS = 2-4]

* Lymph Node, Mesenteric

Leukemia Mononuclear

Mesentery

Fat

Necrosis

Mild

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Moderate

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 211

TRT#: 4

SEX: Male

DAY ON TEST: 716

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Urinary Bladder

* Heart

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Islets, Pancreatic
* Kidney

Vacuolization Cytoplasmic
Adenoma
Leukemia Mononuclear
Nephropathy
Pigmentation

Diffuse, Mild

Mild
Minimal

[Nephropathy TGLS = 2-2]

* Liver

Centrilobular

Degeneration
Degeneration

Minimal
Cystic, Minimal

Centrilobular

Bile Duct

Fatty Change
Hyperplasia

Minimal
Minimal

* Lung
* Lymph Node, Mesenteric
* Pancreas

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Leukemia Mononuclear
Leukemia Mononuclear

* Spleen

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 212

TRT#: 4

SEX: Male

DAY ON TEST: 482

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Kidney

* Liver

* Pancreas

* Urinary Bladder

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Lymph Node, Mesenteric

* Pituitary Gland

* Spleen

OBSERVATIONS

* Adrenal Medulla

Bilateral

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 1-3]

* Heart

Inflammation

Chronic, Marked

[Inflammation TGLS = 2-5]

* Lung

Artery

Mineralization

Minimal

* Testes

Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 213

TRT#: 4

SEX: Male

DAY ON TEST: 646

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic
* Urinary Bladder

* Pancreas

* Parathyroid Gland

* Testes

OBSERVATIONS

* Adrenal Cortex
* Adrenal Medulla
* Heart
* Kidney

Vacuolization Cytoplasmic
Pheochromocytoma Benign
Leukemia Mononuclear
Nephropathy
Pigmentation
Degeneration
Hyperplasia
Leukemia Mononuclear

Focal, Mild

* Liver

Centrilobular
Bile Duct

Degeneration
Hyperplasia
Leukemia Mononuclear

Minimal
Moderate
Mild
Moderate

[Degeneration TGLS = 2-1]

* Lung

Inflammation
Leukemia Mononuclear
Leukemia Mononuclear

Chronic, Mild

* Lymph Node, Mesenteric

* Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Cyst
Hyperplasia
Fibrosis
Leukemia Mononuclear

Mild
Mild
Moderate

[Leukemia Mononuclear TGLS = 1-8]

* Thymus

* Thyroid Gland

C Cell

Atrophy
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 214

TRT#: 4

SEX: Male

DAY ON TEST: 562

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Thyroid Gland

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Heart
* Kidney
* Liver

Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus

Focal, Minimal
Minimal
Minimal
Mild
Minimal

* Lung
* Pancreas
* Pituitary Gland
* Testes
* Thymus
* Urinary Bladder
Zymbal's Gland

Bile Duct
Artery
Acinus
Pars Distalis
Bilateral, Interstit Cell

Hyperplasia
Mineralization
Hyperplasia
Hyperplasia
Adenoma
Atrophy
Infiltration Cellular
Adenoma

Minimal
Minimal
Minimal
Minimal
Mild
Lymphocyte, Minimal

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 215

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Pancreas
* Urinary Bladder

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Spleen

* Lymph Node, Mesenteric
* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Vacuolization Cytoplasmic
Nephropathy
Basophilic Focus
Degeneration

Focal, Minimal
Mild
Minimal
Cystic, Minimal

* Lung
* Pituitary Gland
[Adenoma TGLS = 3-3]

Artery
Pars Distalis

Mineralization
Adenoma

Minimal

* Testes
[Adenoma TGLS = 1-7]

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 216

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Mild

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

* Liver

Degeneration

Cystic, Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 217

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Minimal

* Heart

Fibrosis

Mild

* Islets, Pancreatic

Adenoma

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Degeneration

Marked

Centrilobular

Fatty Change

Mild

Hemorrhage

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Thrombosis

Mild

Leukemia Mononuclear

* Lymph Node, Mesenteric

[Leukemia Mononuclear TGLS = 4-6]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Fibrosis

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 218

TRT#: 4

SEX: Male

DAY ON TEST: 726

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Spleen

* Adrenal Medulla
* Urinary Bladder

* Islets, Pancreatic

* Pancreas

MISSING

* Lymph Node, Mesenteric

* Parathyroid Gland

* Thymus

* Thyroid Gland

OBSERVATIONS

* Heart
* Kidney
* Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus

Minimal
Minimal
Moderate
Minimal

Bile Duct

Hyperplasia
Inflammation

Minimal

* Lung

Inflammation

Chronic, Mild

* Pituitary Gland
Preputial Gland

Artery

Mineralization

Minimal

Pars Distalis

Hyperplasia

Mild

Adenoma

[Adenoma TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 219	TRT#: 4 DOSE: 91M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-124
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex * Pancreas	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin		Fibroma	
[Fibroma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 220	TRT#: 4 DOSE: 91M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-310
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

* Liver

Bile Duct

Hyperplasia

Mild

* Lung

Leukemia Mononuclear

Hyperplasia

Adenomatous, Marked

* Lymph Node, Mesenteric

Leukemia Mononuclear

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-3]

* Spleen

Fibrosis

Marked

[Leukemia Mononuclear TGLS = 1-10]

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 221	TRT#: 4 DOSE: 91M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-172
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Spleen	* Urinary Bladder	

OBSERVATIONS

* Heart		Schwannoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
* Lung		Mesothelioma Malignant	
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,3-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 222	TRT#: 4 DOSE: 91M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-179
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Thyroid Gland	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 223	TRT#: 4 DOSE: 91M	SEX: Male DISP: Natural Death	DAY ON TEST: 557 HISTO: 93-42128-311
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Kidney
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MISSING

* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Thymus	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Heart		Leukemia Mononuclear	
* Liver	Centrilobular Bile Duct	Degeneration Hyperplasia Leukemia Mononuclear	Minimal Minimal
[Leukemia Mononuclear TGLS = 2-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 224

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Leukemia Mononuclear

* Lung

Hyperplasia

Adenomatous, Mild

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-3]

* Spleen

Leukemia Mononuclear

* Testes

Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 225

TRT#: 4

SEX: Male

DAY ON TEST: 638

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Parathyroid Gland

* Heart
* Spleen

* Lymph Node, Mesenteric
* Thyroid Gland

* Pancreas
* Urinary Bladder

MISSING

Preputial Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex
* Islets, Pancreatic
* Kidney

Renal Tubule

Vacuolization Cytoplasmic
Adenoma
Degeneration
Pigmentation

Diffuse, Mild

* Liver

Periportal
Bile Duct

Basophilic Focus
Fatty Change

Mild
Mild

* Lung

Artery

Mineralization

Minimal
Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Skin

Hyperkeratosis

Minimal

[Hyperkeratosis TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 226

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-8]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 227

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

* Liver

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 228

TRT#: 4

SEX: Male

DAY ON TEST: 503

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

Vacuolization Cytoplasmic

Diffuse, Minimal

* Heart

Cardiomyopathy

Mild

* Kidney

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Fatty Change

Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 229

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Liver
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Pancreas

* Islets, Pancreatic
* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney
* Lung

Nephropathy
Hyperplasia
Inflammation
Mineralization
Adenoma
Fibroma

Mild
Adenomatous, Moderate
Chronic, Minimal
Minimal

* Pituitary Gland
Skin

Artery
Pars Distalis
Subcut Tiss

[Fibroma TGLS = 2-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 230

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Lymph Node, Mesenteric

* Parathyroid Gland

* Spleen

* Thyroid Gland

OBSERVATIONS

* Islets, Pancreatic

Adenoma

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Minimal

* Lung

Bile Duct

Hyperplasia

Minimal

Hemorrhage

Mild

Inflammation

Chronic, Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 231

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Spleen

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Heart
* Kidney
* Liver

Hyperplasia
Fibrosis
Nephropathy
Clear Cell Focus
Eosinophilic Focus

Mild
Mild
Mild
Minimal
Minimal

Bile Duct

Hyperplasia

Minimal

* Lung
* Pancreas
* Pituitary Gland

Artery

Mineralization

Minimal

Acinus

Degeneration

Mild

Pars Distalis

Adenoma

[Adenoma TGLS = 1-3]

* Testes

Interstit Cell

Adenoma

* Thymus

Bilateral, Interstit Cell

Hyperplasia

Minimal

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 232

TRT#: 4

SEX: Male

DAY ON TEST: 337

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Parathyroid Gland

* Islets, Pancreatic
* Pituitary Gland

* Lymph Node, Mesenteric
* Testes

* Pancreas
* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex
* Heart
* Kidney

Vacuolization Cytoplasmic
Leukemia Mononuclear
Mineralization
Nephropathy

Focal, Minimal
Mild
Moderate

[Nephropathy TGLS = 4-2]

* Liver

Leukemia Mononuclear
Necrosis

Moderate

[Necrosis TGLS = 2-1]

* Lung

Hemorrhage
Leukemia Mononuclear
Mineralization

Mild

[Hemorrhage TGLS = 3-4]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 233

TRT#: 4

SEX: Male

DAY ON TEST: 561

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Parathyroid Gland

* Pituitary Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Heart

Fibrosis

Mild

* Islets, Pancreatic

Hyperplasia

Minimal

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

Degeneration

Cystic, Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Hyperplasia

Moderate

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3,4-7]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 234

TRT#: 4

SEX: Male

DAY ON TEST: 712

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Liver

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

* Lung

Artery

Mineralization

Minimal

Mesentery

Fat

Necrosis

Moderate

[Necrosis TGLS = 2-10]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

Skin

Fibroma

[Fibroma TGLS = 1-8,9]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 235

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Heart

Schwannoma Malignant

Thrombosis

Mild

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Bile Duct

Hyperplasia

Minimal

* Lung

Artery

Mineralization

Minimal

* Pancreas

Acinus

Hyperplasia

Moderate

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 236

TRT#: 4

SEX: Male

DAY ON TEST: 701

DOSE: 91M

DISP: Moribund Sacrifice

HISTO: 93-42128-314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Pancreas

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Congestion

Mild

[Congestion TGLS = 3-5]

* Kidney

Nephropathy

Minimal

* Liver

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

Mesentery

Fat

Necrosis

Mild

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 237

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Spleen

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Adrenal Medulla

Pheochromocytoma Benign

* Kidney

Nephropathy

Mild

* Liver

Eosinophilic Focus

Minimal

* Lung

Hyperplasia

Adenomatous, Minimal

Inflammation

Chronic, Minimal

* Pancreas

Artery

Mineralization

Minimal

* Pituitary Gland

Acinus

Degeneration

Minimal

* Testes

Pars Distalis

Adenoma

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,2-7]

* Thymus

Atrophy

Mild

* Thyroid Gland

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 238

TRT#: 4

SEX: Male

DAY ON TEST: 615

DOSE: 91M

DISP: Natural Death

HISTO: 93-42128-032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

Brain

Cerebrum

Hemorrhage

Marked

Cerebrum

Leukemia Mononuclear

[Hemorrhage TGLS = 3-8]

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

* Liver

Centrilobular

Nephropathy

Minimal

Degeneration

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Degeneration TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 239

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Pancreas

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Hyperplasia
Nephropathy
Clear Cell Focus

Minimal
Mild
Minimal

[Clear Cell Focus TGLS = 2-9]

* Lung
* Spleen

Artery

Mineralization
Fibrosis

Minimal
Mild

[Fibrosis TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 240

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 91M

DISP: Terminal Sacrifice

HISTO: 93-42128-269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Parathyroid Gland

* Heart
* Spleen

* Kidney
* Urinary Bladder

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Medulla
* Islets, Pancreatic
* Liver

Pheochromocytoma Benign
Hyperplasia
Basophilic Focus
Clear Cell Focus

Minimal
Minimal

Bile Duct

Hyperplasia
Inflammation

Minimal
Chronic, Mild

* Lung
* Pancreas
* Pituitary Gland
* Testes

Artery
Acinus
Pars Distalis
Bilateral, Interstit Cell

Mineralization
Degeneration
Adenoma
Adenoma

Minimal
Mild

[Adenoma TGLS = 1-7]

* Thymus
* Thyroid Gland

C Cell

Atrophy
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 301	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 540 HISTO: 93-42128-051
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mesenteric	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Lung		Hyperplasia	Mild
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 302	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-188
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Spleen	* Thyroid Gland		

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 303

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Parathyroid Gland

* Heart
* Spleen

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver

Bile Duct

* Lung

Artery

* Pancreas
* Pituitary Gland
* Testes

Acinus
Pars Distalis
Bilateral, Interstit Cell

Hyperplasia
Nephropathy
Eosinophilic Focus
Hyperplasia
Fibrosis
Inflammation
Mineralization
Degeneration
Cyst
Adenoma

Minimal
Moderate
Minimal
Minimal
Minimal
Chronic, Minimal
Minimal
Minimal
Minimal

[Adenoma TGLS = 1,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 304	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-193
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland	Inguinal	Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Testes	Interstit Cell	Adenoma	
	Bilateral, Seminif Tub	Degeneration	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-7]			
[Degeneration TGLS = 2-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 305

TRT#: 6

SEX: Male

DAY ON TEST: 625

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Spleen

* Thyroid Gland

MISSING

* Thymus

* Urinary Bladder

OBSERVATIONS

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Minimal

* Lung

Bile Duct

Hyperplasia

Minimal

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-8]

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 306

TRT#: 6

SEX: Male

DAY ON TEST: 595

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
		Pigmentation	Mild
* Liver	Centrilobular	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 2-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-1]		
* Testes	Interstit Cell	Adenoma	
	Bilateral, Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 307	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 379 HISTO: 93-42128-022
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Kidney
* Parathyroid Gland	* Pituitary Gland	* Spleen	* Testes
* Thyroid Gland	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Thymus
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OBSERVATIONS

* Liver	Centrilobular	Fatty Change Necrosis	Mild Mild
* Lung	Artery	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 308	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 469 HISTO: 93-42128-041
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Parathyroid Gland	* Thyroid Gland		
MISSING			
* Islets, Pancreatic	* Pancreas	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Centrilobular	Fatty Change	Mild
		Leukemia Mononuclear	
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Peritoneum	Tunica Vaginal	Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 309

TRT#: 6

SEX: Male

DAY ON TEST: 554

DOSE: 92M

DISP: Natural Death

HISTO: 93-42128-057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Liver
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Infiltration Cellular Nephropathy	Lymphocyte, Minimal Minimal
* Lung	Alveolar Epith Artery	Hyperplasia Mineralization	Mild Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 310

TRT#: 6

SEX: Male

DAY ON TEST: 497

DOSE: 92M

DISP: Natural Death

HISTO: 93-42128-035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

* Liver

Centrilobular

Fatty Change

Moderate

Leukemia Mononuclear

[Fatty Change TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

Bilateral

Hyperplasia

Minimal

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 311

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Hepatodiaphragmatic Nodule

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Hepatodiaphragmatic Nodule TGLS = 3-8]

* Lung

Alveolar/Bronchiolar Carcinoma

Hyperplasia

Adenomatous, Moderate

Inflammation

Chronic, Minimal

Leukemia Mononuclear

Necrosis

Moderate

Mesentery

Fat

[Necrosis TGLS = 5-9]

* Pancreas

Acinus

Degeneration

Marked

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 7,9-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 312	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-207
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Spleen	* Thyroid Gland		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 313

TRT#: 6

SEX: Male

DAY ON TEST: 625

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Minimal

[Nephropathy TGLS = 2-2]

* Liver

Centrilobular

Degeneration

Mild

Bile Duct

Hyperplasia

Marked

Leukemia Mononuclear

[Degeneration TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

Polyarteritis

Minimal

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 314

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric

* Adrenal Medulla
* Parathyroid Gland

* Heart
* Spleen

* Islets, Pancreatic
* Thyroid Gland

OBSERVATIONS

* Kidney
* Liver

* Lung
* Pancreas

* Pituitary Gland

* Testes
* Thymus
* Urinary Bladder

Bile Duct
Artery
Acinus

Pars Distalis
Pars Distalis
Bilateral, Interstit Cell

Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Mineralization
Degeneration
Hyperplasia
Adenoma
Hyperplasia
Adenoma
Atrophy
Infiltration Cellular

Mild
Minimal
Minimal
Minimal
Minimal
Moderate
Minimal
Moderate
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 315	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 590 HISTO: 93-42128-073
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Heart		Fibrosis	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Hyperplasia	Adenomatous, Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 316

TRT#: 6
DOSE: 92M

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 93-42128-164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
* Lung		Inflammation	Chronic, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 317

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Islets, Pancreatic

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Minimal

Leukemia Mononuclear

* Heart

Fibrosis

Minimal

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Fatty Change

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Polyarteritis

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 318

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pituitary Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla

Hyperplasia

Mild

Leukemia Mononuclear

* Kidney

Nephropathy

Minimal

* Liver

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 6-9]

* Spleen

Fibrosis

Mild

Leukemia Mononuclear

[Fibrosis TGLS = 1-8]

[Leukemia Mononuclear TGLS = 2-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4,5-7]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 319

TRT#: 6
 DOSE: 92M

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 93-42128-176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 320

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas
* Urinary Bladder

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Thymus

* Lymph Node, Mesenteric
* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla

Hyperplasia
Pheochromocytoma Benign

Mild

* Kidney

Nephropathy

Moderate

* Liver

Basophilic Focus

Minimal

Clear Cell Focus

Minimal

Degeneration

Cystic, Minimal

Eosinophilic Focus

Minimal

* Lung

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Fibrosis

Mild

[Fibrosis TGLS = 3-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 321

TRT#: 6

SEX: Male

DAY ON TEST: 701

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Parathyroid Gland

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Mild

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

Thrombosis

Moderate

* Islets, Pancreatic

Leukemia Mononuclear

Metastatic (Spleen)

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Pigmentation

Moderate

* Liver

Centrilobular

Fatty Change

Marked

Leukemia Mononuclear

Necrosis

Minimal

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 322	TRT#: 6 DOSE: 92M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 583 HISTO: 93-42128-064
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	* Heart	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Degeneration	Minimal
	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Fatty Change TGLS = 1-1]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 4-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 323	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-212
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Hyperplasia	Adenomatous, Mild
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Fibroma	
[Fibroma TGLS = 3-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,7-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 1-6]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 324	TRT#: 6 DOSE: 92M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 589 HISTO: 93-42128-189
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 325

TRT#: 6

SEX: Male

DAY ON TEST: 728

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas
* Thyroid Gland

* Adrenal Medulla
* Parathyroid Gland
* Urinary Bladder

* Islets, Pancreatic
* Pituitary Gland

* Lymph Node, Mesenteric
* Spleen

OBSERVATIONS

* Heart
* Kidney
* Liver

* Lung
* Testes
 [Adenoma TGLS = 1-7]
* Thymus

Bile Duct
Artery
Bilateral, Interstit Cell

Cardiomyopathy
Nephropathy
Eosinophilic Focus
Hyperplasia
Mineralization
Adenoma

Atrophy

Minimal
Minimal
Minimal
Minimal
Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 326	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-152
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Thyroid Gland
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MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Mild
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy Pigmentation	Minimal Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
* Urinary Bladder		Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 327

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Parathyroid Gland
* Urinary Bladder

* Heart
* Pituitary Gland

* Islets, Pancreatic
* Spleen

* Lymph Node, Mesenteric
* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver

Pheochromocytoma Benign
Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Hyperplasia
Mineralization
Degeneration
Atrophy

Mild
Mild
Minimal
Minimal
Minimal
Minimal
Mild

* Lung
* Pancreas
Seminal Vesicle
[Atrophy TGLS = 4-8]
* Testes
[Adenoma TGLS = 2,3-7]
* Thymus

Bile Duct
Artery
Acinus

Bilateral, Interstit Cell

Adenoma

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 328	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 525 HISTO: 93-42128-038
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Islets, Pancreatic	* Thyroid Gland
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MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
Brain	Cerebellum	Hemorrhage	Moderate
	Cerebellum	Leukemia Mononuclear	
[Hemorrhage TGLS = 2-8]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 329	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-158
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 330

TRT#: 6

SEX: Male

DAY ON TEST: 650

DOSE: 92M

DISP: Natural Death

HISTO: 93-42128-287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Kidney

Nephropathy

Minimal

* Liver

Leukemia Mononuclear

Necrosis

Moderate

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 331

TRT#: 6

SEX: Male

DAY ON TEST: 646

DOSE: 92M

DISP: Natural Death

HISTO: 93-42128-288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Atrophy

Mild

* Adrenal Medulla

Hyperplasia

Minimal

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Leukemia Mononuclear

Nephropathy

Minimal

Pigmentation

Moderate

[Leukemia Mononuclear TGLS = 2-2]

* Liver

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Artery

Leukemia Mononuclear

Mineralization

Minimal

[Leukemia Mononuclear TGLS = 4-4]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Mild

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstitial Cell

Adenoma

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 332	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-169
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 333

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Mild

* Kidney

Nephropathy

Minimal

* Liver

Eosinophilic Focus

Minimal

* Lung

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Preputial Gland

Adenoma

[Adenoma TGLS = 1-8]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 334	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-150
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Thyroid Gland	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
	Periportal	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Artery	Mineralization	Minimal
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-9]			
* Spleen		Fibrosis	Moderate
		Fibrous Histiocytoma	
[Fibrosis TGLS = 1-1]			
[Fibrous Histiocytoma TGLS = 2-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7,4-7]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 335

TRT#: 6

SEX: Male

DAY ON TEST: 701

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Thyroid Gland			

OBSERVATIONS

* Adrenal Cortex		Metaplasia	Osseous, Moderate
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 336

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Adrenal Medulla
* Pituitary Gland

* Islets, Pancreatic
Salivary Glands

* Lymph Node, Mesenteric

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Heart
* Kidney
* Liver

* Lung
Preputial Gland
[Squamous Cell Papilloma TGLS = 5-9]
* Spleen
* Testes
[Adenoma TGLS = 1,3-7]
* Thyroid Gland
* Urinary Bladder

Bile Duct

Artery

Bilateral, Interstit Cell

C Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear
Mineralization
Squamous Cell Papilloma

Leukemia Mononuclear
Adenoma

Hyperplasia
Infiltration Cellular

Minimal
Mild
Minimal
Mild
Minimal

Minimal

Minimal
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 337

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Kidney

Hydronephrosis

Minimal

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

Degeneration

Cystic, Minimal

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

* Lung

Hyperplasia

Adenomatous, Mild

Artery

Mineralization

Minimal

Mesentery

Fat

Necrosis

Moderate

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Fibrosis

Mild

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 338

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Thyroid Gland

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla
* Heart
* Kidney

Leukemia Mononuclear
Leukemia Mononuclear
Cyst

Mild

* Liver

Nephropathy
Basophilic Focus
Degeneration

Mild

Minimal

Cystic, Minimal

Bile Duct

Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear

Mild

Mild

[Eosinophilic Focus TGLS = 6-8]

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear
Mineralization

Minimal

Artery

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Minimal

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 5-9]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3,4-7]

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 338

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-117

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 339	TRT#: 6 DOSE: 92M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-290
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pituitary Gland	* Thyroid Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
* Lung	Artery	Mineralization	Minimal
Mesentery	Fat	Necrosis	Marked
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Inflammation	Acute, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 340

TRT#: 6
DOSE: 92M

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 93-42128-123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Spleen	* Thyroid Gland	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Fibrosis	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
[Eosinophilic Focus TGLS = 1-1]			
* Lung	Artery	Mineralization	Minimal
Mesentery	Fat	Necrosis	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 341	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 505 HISTO: 93-42128-034
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Testes	* Thyroid Gland
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney [Nephropathy TGLS = 1-2]		Nephropathy	Moderate
* Liver	Periportal	Fatty Change Inflammation Necrosis	Moderate Chronic, Minimal Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:29
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 342

TRT#: 6

SEX: Male

DAY ON TEST: 720

DOSE: 92M

DISP: Natural Death

HISTO: 93-42128-291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Testes	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Congestion	Mild
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Congestion	Mild
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-3]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 344

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

OBSERVATIONS

* Heart

Fibrosis

Minimal

* Kidney

Nephropathy

Mild

* Liver

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Mild

Hyperplasia

Mild

[Hyperplasia TGLS = 7-1]

* Lung

Hyperplasia

Adenomatous, Marked

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Hyperplasia

Lymphoid, Mild

* Spleen

Hyperplasia

Lymphoid, Moderate

[Hyperplasia TGLS = 9-9]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7,3-8]

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 348

TRT#: 6

SEX: Male

DAY ON TEST: 726

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart

* Parathyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear
Vacuolization Cytoplasmic

Focal, Minimal

* Adrenal Medulla

Leukemia Mononuclear

* Islets, Pancreatic

Hyperplasia

Minimal

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

* Liver

Degeneration

Cystic, Moderate

Eosinophilic Focus

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Hyperplasia

Mild

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Seminif Tub

Degeneration

Marked

[Degeneration TGLS = 3-7]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 349	TRT#: 6 DOSE: 92M	SEX: Male DISP: Natural Death	DAY ON TEST: 725 HISTO: 93-42128-294
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Kidney	* Pituitary Gland	* Thyroid Gland
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MISSING

* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Thymus	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Heart		Fibrosis	Mild
* Liver		Leukemia Mononuclear	
		Necrosis	Marked
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Mesentery		Thrombosis	Marked
[Thrombosis TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 350	TRT#: 6 DOSE: 92M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 589 HISTO: 93-42128-056
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Thyroid Gland	* Urinary Bladder

MISSING

* Islets, Pancreatic	* Pancreas
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Diffuse, Minimal
* Kidney		Pigmentation	Minimal
* Liver	Centrilobular	Degeneration	Mild
	Centrilobular	Fatty Change	Mild
		Necrosis	Mild
* Lung	Artery	Mineralization	Minimal
Peritoneum	Mesothelium	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-5,8]			
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 1-7]			
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 351

TRT#: 6

SEX: Male

DAY ON TEST: 701

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Pituitary Gland

* Lymph Node, Mesenteric
* Spleen

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver
* Lung

Bilateral

Pheochromocytoma Benign

Nephropathy

Mild

Basophilic Focus

Mild

Inflammation

Chronic, Moderate

Mineralization

Minimal

Artery

Adenoma

* Testes

Bilateral, Interstit Cell

Atrophy

* Thymus

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 352

TRT#: 6

SEX: Male

DAY ON TEST: 701

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex * Islets, Pancreatic

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Mild
		Degeneration	Cystic, Minimal
	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Lung	Artery	Leukemia Mononuclear	
	Mediastinal	Mineralization	Minimal
Lymph Node		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 353

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart

* Islets, Pancreatic

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Kidney

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Angiectasis

Minimal

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 4-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 354

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pituitary Gland

* Spleen

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

* Lung

Artery

Mineralization

Minimal

* Pancreas

Inflammation

Chronic, Minimal

Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 5-8]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,3-7]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 355

TRT#: 6

SEX: Male

DAY ON TEST: 727

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Lymph Node, Mesenteric

* Parathyroid Gland

MISSING

* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic

Hyperplasia

Minimal

* Kidney

Nephropathy

Mild

Pigmentation

Minimal

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 356

TRT#: 6

SEX: Male

DAY ON TEST: 729

DOSE: 92M

DISP: Terminal Sacrifice

HISTO: 93-42128-250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart

* Islets, Pancreatic

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Adrenal Medulla

Pheochromocytoma Benign

* Kidney

Nephropathy

Moderate

* Liver

Basophilic Focus

Mild

Degeneration

Cystic, Minimal

* Lung

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Parathyroid Gland

Adenoma

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 357

TRT#: 6

SEX: Male

DAY ON TEST: 701

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Spleen

* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Kidney

Nephropathy

Mild

* Liver

Degeneration

Cystic, Minimal

Bile Duct

Hyperplasia

Marked

* Lung

Artery

Mineralization

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-3]

* Testes

Interstit Cell

Adenoma

Bilateral, Interstit Cell

Hyperplasia

Minimal

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 358

TRT#: 6

SEX: Male

DAY ON TEST: 636

DOSE: 92M

DISP: Moribund Sacrifice

HISTO: 93-42128-066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Spleen

* Lymph Node, Mesenteric
* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla
Bone

Vertebra

Pheochromocytoma Benign
Osteosarcoma

[Osteosarcoma TGLS = 1-8]

* Kidney
* Liver

Nephropathy
Degeneration

Mild
Cystic, Minimal

* Lung

Bile Duct
Artery

Hyperplasia
Mineralization
Osteosarcoma

Mild
Minimal
Metastatic (Bone)

* Pituitary Gland
[Adenoma TGLS = 2-3]

Pars Distalis

Adenoma

* Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia
Hyperplasia
Inflammation

Mild
Mild

* Urinary Bladder

Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 359	TRT#: 6 DOSE: 92M	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-251
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pituitary Gland	* Spleen	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-7]		
* Thymus		Atrophy	Mild
* Thyroid Gland		Fibrosis	Minimal
		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 360	TRT#: 6 DOSE: 92M	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 580 HISTO: 93-42128-003
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Spleen	* Thyroid Gland

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Periportal	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 1	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-201
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Spleen	* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Hyperplasia	Adenomatous, Marked
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Bilateral	Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 2	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-198
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Ovary	* Pancreas	* Pituitary Gland
* Thyroid Gland	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-8,3-9]			
* Spleen		Leukemia Mononuclear	
* Uterus	Serosa	Cyst	Moderate
[Cyst TGLS = 5-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 3	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 373 HISTO: 93-42128-026
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Heart	* Kidney
* Liver	* Lymph Node, Mesenteric	* Ovary	* Spleen
* Uterus			

MISSING			
* Parathyroid Gland	* Thymus	* Thyroid Gland	

AUTO PRECLUDES DIAG.			
* Islets, Pancreatic	* Pancreas	* Urinary Bladder	

OBSERVATIONS			
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 4	TRT#: 1 DOSE: 07F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-324
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Thyroid Gland
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Liver		Basophilic Focus	Minimal
* Lung	Alveolus	Leukemia Mononuclear Infiltration Cellular Leukemia Mononuclear	Histiocyte, Moderate
Mammary Gland	Artery	Mineralization Fibroadenoma	Minimal Multiple
[Fibroadenoma TGLS = 1-8,2-9]			
* Pancreas	Acinus	Degeneration	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Moderate Mild
[Angiectasis TGLS = 3-3]			
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 5	TRT#: 1	SEX: Female	DAY ON TEST: 728
	DOSE: 07F	DISP: Terminal Sacrifice	HISTO: 93-42128-087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Liver
* Parathyroid Gland	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Moderate
Clitoral Gland		Adenoma	
		Leukemia Granulocytic	Metastatic (Spleen)
[Leukemia Granulocytic TGLS = 1-8]			
* Kidney		Leukemia Granulocytic	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Granulocytic	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Granulocytic	
Mesentery		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 3-9]			
* Ovary		Leukemia Granulocytic	
* Pancreas		Leukemia Granulocytic	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 4-1]			
* Thymus		Leukemia Granulocytic	
* Urinary Bladder		Leukemia Granulocytic	
* Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 7	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-088
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Parathyroid Gland	* Pituitary Gland	* Thyroid Gland
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Liver		Inflammation	Chronic, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Inflammation	Acute, Mild
* Ovary		Granulosa Cell Tumor Benign	
* Pancreas	Acinus	Degeneration	Minimal
		Inflammation	Acute, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 1-1]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 9

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Kidney		Pigmentation	Minimal
* Liver	Centrilobular	Fatty Change	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 3-9]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Amyloid Deposition	Moderate
		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
* Thyroid Gland		Cystadenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 10

TRT#: 1

SEX: Female

DAY ON TEST: 728

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Ovary		Cyst	Minimal
* Pancreas	Acinus	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 11

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Uterus

* Adrenal Medulla
* Ovary

* Heart
* Thyroid Gland

* Islets, Pancreatic
* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 2-1]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 12

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Parathyroid Gland

* Islets, Pancreatic
* Urinary Bladder

* Lymph Node, Mesenteric
* Uterus

* Ovary

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex
Clitoral Gland

[Carcinoma TGLS = 1-8]

* Heart
* Kidney

* Liver
* Lung

* Pancreas
* Pituitary Gland

[Adenoma TGLS = 3-3]

* Spleen
* Thyroid Gland

Valve

Alveolus
Artery

Acinus
Pars Distalis

C Cell

Vacuolization Cytoplasmic
Carcinoma

Inflammation
Pigmentation
Basophilic Focus
Infiltration Cellular
Mineralization
Degeneration
Adenoma

Pigmentation
Hyperplasia

Focal, Minimal

Chronic, Mild

Minimal

Minimal

Histiocyte, Minimal

Minimal

Minimal

Hemosiderin, Minimal

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 13

TRT#: 1

SEX: Female

DAY ON TEST: 415

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Pancreas

* Pituitary Gland

* Spleen

* Thyroid Gland

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Congestion

Mild

Vacuolization Cytoplasmic

Focal, Minimal

* Heart

Cardiomyopathy

Moderate

Intestine Large, Colon

Inflammation

Chronic, Marked

Perforation

[Inflammation TGLS = 1-8]

* Liver

Congestion

Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Ovary

Congestion

Mild

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 14	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-129
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Spleen	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Fibrosis	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-3]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 15	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 514 HISTO: 93-42128-036
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
	Periportal	Fatty Change	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 16	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-220
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Urinary Bladder

OBSERVATIONS

* Liver [Basophilic Focus TGLS = 3-1]		Basophilic Focus	Moderate
* Lung Mammary Gland [Fibroadenoma TGLS = 1-8,2-9]	Artery	Mineralization Fibroadenoma	Minimal Multiple
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Mild
* Thymus		Atrophy	Mild
* Uterus	Bilateral	Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 17	TRT#: 1 DOSE: 07F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 579 HISTO: 93-42128-015
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Kidney		Hemorrhage	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Inflammation	Chronic, Minimal
* Lung		Congestion	Mild
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 18

TRT#: 1

SEX: Female

DAY ON TEST: 617

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Urinary Bladder

* Uterus

OBSERVATIONS

Bone
[Osteosarcoma TGLS = 1-8,9,10,11]

Rib

Osteosarcoma

* Kidney

Nephropathy

Minimal

Pigmentation

Minimal

* Liver

Centrilobular

Degeneration

Mild

Centrilobular

Fatty Change

Minimal

Inflammation

Chronic, Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Osteosarcoma

Metastatic (Bone)

Mammary Gland

Adenoma

[Adenoma TGLS = 2-10]

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thymus

Osteosarcoma

Metastatic (Bone)

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 19

TRT#: 1

SEX: Female

DAY ON TEST: 728

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Ovary
* Uterus

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Centrilobular

Vacuolization Cytoplasmic
Pigmentation
Fatty Change
Leukemia Mononuclear

Diffuse, Minimal
Minimal
Moderate

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Alveolus

Infiltration Cellular
Leukemia Mononuclear

Histiocyte, Minimal

Artery

Mineralization
Fibroadenoma

Minimal

Mammary Gland

[Fibroadenoma TGLS = 5-8]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 20

TRT#: 1

SEX: Female

DAY ON TEST: 728

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Ovary
* Urinary Bladder

* Heart
* Pancreas

* Islets, Pancreatic
* Parathyroid Gland

* Lymph Node, Mesenteric
* Thyroid Gland

MISSING

* Thymus

* Uterus

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Hyperplasia
Nephropathy
Basophilic Focus

Minimal
Minimal
Mild

[Basophilic Focus TGLS = 1-8,2-9]

* Lung

Alveolus
Artery

Hyperplasia
Infiltration Cellular
Mineralization

Adenomatous, Mild
Histiocyte, Minimal
Minimal

* Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Hyperplasia

Minimal
Mild

* Spleen

Pigmentation

Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 21

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Parathyroid Gland

* Thyroid Gland

* Uterus

OBSERVATIONS

* Adrenal Medulla

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 1-3]

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Mild

Clear Cell Focus

Minimal

Infiltration Cellular

Histiocyte, Minimal

* Lung

Alveolus

Degeneration

Minimal

* Pancreas

Acinus

Adenoma

* Pituitary Gland

Pars Distalis

[Adenoma TGLS = 2-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Moderate

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 22

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Urinary Bladder

* Adrenal Medulla
* Lymph Node, Mesenteric
* Uterus

* Heart
* Ovary

* Islets, Pancreatic
* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver

Basophilic Focus
Hepatodiaphragmatic Nodule

Moderate

[Hepatodiaphragmatic Nodule TGLS = 1-8]

* Lung

Alveolus
Artery

Infiltration Cellular
Mineralization

Histiocyte, Minimal
Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 23	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-237
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Spleen	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Marked
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 24	TRT#: 1 DOSE: 07F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-325
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland	* Pituitary Gland	* Thymus	
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OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-8]		
	[Hyperplasia TGLS = 1-8]		
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 25

TRT#: 1

SEX: Female

DAY ON TEST: 531

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Spleen

* Urinary Bladder

* Uterus

OBSERVATIONS

* Kidney

Cyst

Minimal

* Liver

Angiectasis

Minimal

* Lung

Alveolus

Basophilic Focus

Mild

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Mild

* Thymus

Atrophy

Mild

* Thyroid Gland

Ultimobranchial Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 26	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-140
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Spleen	* Thyroid Gland
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Pigmentation	Minimal
* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Uterus		Dilatation	Mild
[Dilatation TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 27

TRT#: 1

SEX: Female

DAY ON TEST: 701

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

* Liver

Basophilic Focus

Marked

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Adenocarcinoma

Fibroadenoma

[Adenocarcinoma TGLS = 2-9]

[Fibroadenoma TGLS = 2-9]

* Ovary

Cyst

Mild

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-3]

Skin

Subcut Tiss

Lipoma

[Lipoma TGLS = 1-10]

* Spleen

Fibrosis

Minimal

Pigmentation

Hemosiderin, Minimal

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 28

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lung

* Lymph Node, Mesenteric

* Ovary

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

Clitoral Gland

Carcinoma

[Carcinoma TGLS = 1-8]

* Kidney

Nephropathy

Mild

* Liver

Basophilic Focus

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Mild

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 29

TRT#: 1

SEX: Female

DAY ON TEST: 705

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Kidney	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
		Necrosis	Mild
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Thymus		Atrophy	Mild
		Leukemia Mononuclear	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 30	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 660 HISTO: 93-42128-328
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 31

TRT#: 1

SEX: Female

DAY ON TEST: 590

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Ovary

* Spleen

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Kidney

Nephropathy

Minimal

* Liver

Periportal

Fatty Change

Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Hemorrhage

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-3]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 33	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 540 HISTO: 93-42128-052
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
Mammary Gland	Artery	Mineralization Fibroadenoma	Minimal
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 34	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-279
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Skin	Subcut Tiss	Necrosis	Minimal
Note: Necrosis in fat			
[Necrosis TGLS = 1-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 35

TRT#: 1

SEX: Female

DAY ON TEST: 639

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary

* Islets, Pancreatic
* Pituitary Gland

* Kidney
* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
* Liver

Pheochromocytoma Benign
Basophilic Focus
Clear Cell Focus
Leukemia Mononuclear

Marked
Minimal

* Lung

Carcinoma
Hyperplasia
Infiltration Cellular

Metastatic (Zymbal'S Gland)
Adenomatous, Moderate
Histiocyte, Minimal

Alveolus
Artery
Acinus

* Pancreas
Skin

Mineralization
Degeneration
Carcinoma

Minimal
Minimal
Metastatic (Zymbal'S Gland)

[Carcinoma TGLS = 4-10]

* Spleen

Hematopoietic Cell Proliferation
Leukemia Mononuclear

Minimal

* Thymus

Atrophy

Mild

* Uterus

Bilateral

Dilatation

Mild

[Dilatation TGLS = 2-7]

Zymbal's Gland

Carcinoma

[Carcinoma TGLS = 1-8,9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 36

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Urinary Bladder

* Adrenal Medulla
* Parathyroid Gland

* Islets, Pancreatic
* Spleen

* Kidney
* Thyroid Gland

MISSING

* Ovary * Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-9]			
* Pancreas	Acinus	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 37

TRT#: 1

SEX: Female

DAY ON TEST: 541

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Spleen

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Parathyroid Gland

OBSERVATIONS

* Liver

* Lung

Mammary Gland
[Fibroadenoma TGLS = 1-8]

* Pancreas
* Pituitary Gland

* Thymus
* Thyroid Gland

Alveolus
Artery

Acinus
Pars Distalis
Pars Distalis
Pars Distalis

C Cell

Angiectasis
Basophilic Focus
Infiltration Cellular
Mineralization
Fibroadenoma

Degeneration
Adenoma
Cyst
Hyperplasia
Atrophy
Adenoma

Mild
Minimal
Histiocyte, Minimal
Minimal

Minimal
Minimal
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 38

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Thyroid Gland

* Ovary
* Urinary Bladder

MISSING

* Adrenal Medulla

OBSERVATIONS

* Kidney
* Liver

Nephropathy
Basophilic Focus
Hyperplasia
Leukemia Mononuclear

Minimal
Mild
Moderate

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Artery

Leukemia Mononuclear
Mineralization
Hyperplasia
Adenocarcinoma

Minimal
Lymphoid, Minimal

* Lymph Node, Mesenteric
Mammary Gland

[Adenocarcinoma TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Adenoma
Leukemia Mononuclear

* Spleen

* Thymus

Atrophy

Mild

* Uterus

Bilateral

Dilatation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 39

TRT#: 1

SEX: Female

DAY ON TEST: 729

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric
* Uterus

* Adrenal Medulla
* Ovary

* Heart
* Pancreas

* Islets, Pancreatic
* Parathyroid Gland

OBSERVATIONS

* Kidney
* Liver
[Leukemia Mononuclear TGLS = 1-1]
* Lung
* Pituitary Gland
* Spleen
[Leukemia Mononuclear TGLS = 3-1]
* Thymus
* Thyroid Gland
* Urinary Bladder

Alveolus
Artery
Pars Distalis
Pars Distalis

C Cell

Nephropathy
Basophilic Focus
Leukemia Mononuclear
Infiltration Cellular
Mineralization
Adenoma
Angiectasis
Leukemia Mononuclear
Atrophy
Hyperplasia
Fibrosis

Minimal
Mild
Histiocyte, Minimal
Minimal
Moderate
Mild
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 40	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 665 HISTO: 93-42128-329
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Minimal
* Heart		Thrombosis	Moderate
* Kidney		Pigmentation	Minimal
* Liver	Centrilobular	Fatty Change	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 41	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 534 HISTO: 93-42128-045
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland
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OBSERVATIONS

* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Congestion	Mild
* Pituitary Gland	Artery	Mineralization	Minimal
[Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 43	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-227
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Spleen	* Uterus		

OBSERVATIONS

* Kidney	Renal Tubule	Cyst Nephropathy Pigmentation Basophilic Focus	Minimal Minimal Minimal Mild
* Liver			
* Lung	Alveolus Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland [Adenoma TGLS = 1-6]	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 44

TRT#: 1

SEX: Female

DAY ON TEST: 593

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Uterus

* Heart
* Spleen

* Islets, Pancreatic
* Thyroid Gland

* Kidney
* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver

Congestion
Basophilic Focus
Infiltration Cellular
Infiltration Cellular
Mineralization
Fibroadenoma

Minimal
Moderate
Lymphocyte, Minimal
Histiocyte, Minimal
Minimal
Multiple

* Lung
Mammary Gland
[Fibroadenoma TGLS = 1-8,3-9]

Alveolus
Artery

Cyst

Moderate

* Ovary
[Cyst TGLS = 2-7]

* Pancreas
* Pituitary Gland
[Adenoma TGLS = 5-3]

Acinus
Pars Distalis

Degeneration
Adenoma

Minimal

* Thymus
[Thymoma Benign TGLS = 4-6]

Thymoma Benign

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 45

TRT#: 1

SEX: Female

DAY ON TEST: 728

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Parathyroid Gland

* Thyroid Gland

MISSING

* Uterus

OBSERVATIONS

* Liver

Basophilic Focus

Moderate

Histiocytic Sarcoma

Inflammation

Chronic, Mild

Leukemia Mononuclear

[Histiocytic Sarcoma TGLS = 1-8]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

* Lymph Node, Mesenteric

Hemorrhage

Mild

* Ovary

Cyst

Mild

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Moderate

* Spleen

Leukemia Mononuclear

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 46

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Thyroid Gland		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
* Ovary		Tubulostromal Carcinoma	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Urinary Bladder		Adenoma	
* Uterus		Dilatation	Mild
	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 47

TRT#: 1

SEX: Female

DAY ON TEST: 701

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Parathyroid Gland

* Heart
* Thyroid Gland

* Islets, Pancreatic
* Urinary Bladder

* Pancreas
* Uterus

OBSERVATIONS

* Adrenal Medulla
* Kidney
* Liver

Centrilobular
Bile Duct

Leukemia Mononuclear
Pigmentation
Fatty Change
Hyperplasia
Leukemia Mononuclear

Minimal
Moderate
Minimal

[Leukemia Mononuclear TGLS = 2-1]

* Lung
* Lymph Node, Mesenteric
* Ovary
* Pituitary Gland

Pars Distalis
Pars Distalis

Leukemia Mononuclear
Leukemia Mononuclear
Cyst
Hyperplasia
Leukemia Mononuclear

Minimal
Minimal

[Hyperplasia TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 48

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Uterus

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Mild

Clitoral Gland

Adenoma

[Adenoma TGLS = 1-8]

* Heart

Cardiomyopathy

Minimal

* Liver

Basophilic Focus

Moderate

Hematopoietic Cell Proliferation

Minimal

Inflammation

Chronic, Mild

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-3]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 49

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Lymph Node, Mesenteric

* Spleen

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

Clitoral Gland

Adenoma

[Adenoma TGLS = 1-8]

* Islets, Pancreatic

Hyperplasia

Moderate

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

Inflammation

Chronic, Minimal

Vacuolization Cytoplasmic

Minimal

* Lung

Hyperplasia

Adenomatous, Minimal

Artery

Mineralization

Minimal

* Ovary

Cyst

Mild

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 50	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 596 HISTO: 93-42128-018
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Spleen
* Thyroid Gland	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Marked
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 2-3]			
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 51

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Ovary
* Urinary Bladder

* Adrenal Medulla
* Pancreas

* Islets, Pancreatic
* Parathyroid Gland

* Lymph Node, Mesenteric
* Spleen

OBSERVATIONS

* Heart
* Kidney
* Liver

Fibrosis
Nephropathy
Basophilic Focus
Inflammation
Infiltration Cellular
Mineralization
Fibroadenoma

Minimal
Minimal
Minimal
Chronic, Mild
Histiocyte, Minimal
Minimal

* Lung

Alveolus
Artery

Mammary Gland
[Fibroadenoma TGLS = 3-9]

* Pituitary Gland
* Thymus
* Thyroid Gland
* Uterus

Pars Distalis
C Cell
Endometrium

Hyperplasia
Atrophy
Hyperplasia
Polyp Stromal

Moderate
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 52	TRT#: 1 DOSE: 07F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 562 HISTO: 93-42128-059
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-3]			
* Liver		Basophilic Focus	Marked
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
		Vacuolization Cytoplasmic	Focal, Mild
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 53	TRT#: 1 DOSE: 07F	SEX: Female DISP: Natural Death	DAY ON TEST: 589 HISTO: 93-42128-010
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Spleen	* Thyroid Gland
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Hemorrhage	Minimal
		Hyperplasia	Minimal

[Hemorrhage TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 54

TRT#: 1

SEX: Female

DAY ON TEST: 359

DOSE: 07F

DISP: Moribund Sacrifice

HISTO: 93-42128-040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Ovary

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Diffuse, Mild

* Kidney

Leukemia Mononuclear

Mineralization

Minimal

Vacuolization Cytoplasmic

Mild

* Liver

Centrilobular

Fatty Change

Minimal

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Pigmentation

Hemosiderin, Minimal

Skin

Inflammation

Acute, Mild

[Inflammation TGLS = 3-8]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 55

TRT#: 1

SEX: Female

DAY ON TEST: 726

DOSE: 07F

DISP: Terminal Sacrifice

HISTO: 93-42128-138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Thyroid Gland

* Uterus

MISSING

* Parathyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Mild

Leukemia Mononuclear

Clitoral Gland

Hyperplasia

Moderate

[Hyperplasia TGLS = 3-9]

* Heart

Leukemia Mononuclear

* Kidney

Nephropathy

Mild

Pigmentation

Minimal

* Liver

Centrilobular

Degeneration

Minimal

Leukemia Mononuclear

[Degeneration TGLS = 9-1a]

* Lung

Leukemia Mononuclear

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Ovary

Cyst

Minimal

[Cyst TGLS = 7-7]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 8-3]

* Spleen

Fibrosis

Mild

Leukemia Mononuclear

[Fibrosis TGLS = 6-1b]

[Leukemia Mononuclear TGLS = 5-1b]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 56	TRT#: 1 DOSE: 07F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 562 HISTO: 93-42128-062
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Spleen
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
* Lung		Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 57	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-277
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 58

TRT#: 1

SEX: Female

DAY ON TEST: 670

DOSE: 07F

DISP: Natural Death

HISTO: 93-42128-330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Urinary Bladder

* Uterus

OBSERVATIONS

* Heart

Thrombosis

Mild

[Thrombosis TGLS = 4-5]

* Kidney

Pigmentation

Minimal

* Liver

Centrilobular

Fatty Change

Moderate

Leukemia Mononuclear

Necrosis

Minimal

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Leukemia Mononuclear

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2-8]

* Ovary

Granulosa Cell Tumor Benign

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Angiectasis

Minimal

[Angiectasis TGLS = 5-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 59	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-283
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	Mild
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 60	TRT#: 1 DOSE: 07F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-276
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Spleen
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 121

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

Lacrimal Gland

Adenoma

Note: Lesion is an Adenocarcinoma.

[Adenoma TGLS = 3-8]

* Liver

Basophilic Focus

Minimal

Leukemia Mononuclear

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2-9]

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-1]

* Uterus

Dilatation

Moderate

[Dilatation TGLS = 6-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 122	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-097
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Uterus

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Liver		Basophilic Focus	Mild
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 123

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Parathyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Spleen

* Heart
* Ovary

* Islets, Pancreatic
* Pancreas

OBSERVATIONS

* Liver

* Lung
Mammary Gland
[Fibroadenoma TGLS = 1-8]
* Pituitary Gland
* Thymus
* Thyroid Gland
* Urinary Bladder
* Uterus

Alveolus

Pars Distalis

Follicle

Endometrium

Basophilic Focus
Inflammation
Infiltration Cellular
Fibroadenoma

Cyst
Atrophy
Cyst
Infiltration Cellular
Polyp Stromal

Moderate
Chronic, Mild
Histiocyte, Minimal

Minimal
Mild
Minimal
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 124	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-267
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Uterus	

OBSERVATIONS

* Liver		Basophilic Focus Inflammation	Mild Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Mammary Gland		Fibroadenoma Hyperplasia	Atypical, Moderate
[Fibroadenoma TGLS = 1-8,3-9]			
* Ovary	Interstitial Cell	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 125

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Pancreas

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver

Basophilic Focus
Inflammation

Minimal
Chronic, Minimal

* Lung

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Pars Distalis

Cyst

Mild

* Thymus

Pigmentation

Hemosiderin, Minimal

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 126

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 638
HISTO: 93-42128-067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Liver	Periportal	Fatty Change	Mild
		Infiltration Cellular	Polymorphnuclr, Mild
		Necrosis	Mild
* Lung	Bronchus	Inflammation	Acute, Marked
* Spleen		Hematopoietic Cell Proliferation	Marked

[Hematopoietic Cell Proliferation TGLS = 1-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 127

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Thyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

Clitoral Gland

Adenoma

[Adenoma TGLS = 1-8]

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Moderate

Clear Cell Focus

Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Parathyroid Gland

Fibrosis

Mild

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 5-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 128

TRT#: 3

SEX: Female

DAY ON TEST: 721

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Uterus

* Heart

* Islets, Pancreatic

* Thyroid Gland

MISSING

* Ovary

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla
Clitoral Gland

[Cyst TGLS = 2-8]

* Kidney

* Liver

Centrilobular
Bile Duct

[Leukemia Mononuclear TGLS = 3-1]

* Lung

* Lymph Node, Mesenteric

* Pancreas

* Pituitary Gland

[Cyst TGLS = 4-3]

* Spleen

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

* Urinary Bladder

Pheochromocytoma Benign
Cyst

Moderate

Pigmentation

Mild

Fatty Change

Moderate

Hyperplasia

Minimal

Leukemia Mononuclear

Leukemia Mononuclear

Hemorrhage

Moderate

Leukemia Mononuclear

Leukemia Mononuclear

Cyst

Moderate

Leukemia Mononuclear

Atrophy

Moderate

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 129

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Ovary

* Parathyroid Gland

* Uterus

MISSING

* Thymus

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Medulla

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

* Liver

Basophilic Focus

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 130

TRT#: 3

SEX: Female

DAY ON TEST: 639

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Uterus

* Heart
* Ovary

* Islets, Pancreatic
* Parathyroid Gland

* Lung
* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Liver

Hyperplasia
Nephropathy
Basophilic Focus
Eosinophilic Focus
Leukemia Mononuclear

Minimal
Minimal
Minimal
Minimal

* Pancreas
* Pituitary Gland
[Adenoma TGLS = 1-3]

Acinus
Pars Distalis

Degeneration
Adenoma

Minimal

* Spleen
* Thymus
* Urinary Bladder

Leukemia Mononuclear
Atrophy
Infiltration Cellular

Mild
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 131

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Thyroid Gland	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Liver		Basophilic Focus	Marked
		Inflammation	Chronic, Mild
* Lung	Alveolus	Leukemia Mononuclear	
	Artery	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-1,8]		
* Thymus		Atrophy	Mild
* Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 132

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Urinary Bladder

* Uterus

MISSING

* Heart

* Parathyroid Gland

OBSERVATIONS

* Kidney

Pigmentation

Minimal

* Liver

Basophilic Focus

Minimal

* Lung

Artery

Inflammation

Chronic, Minimal

Mammary Gland

Mineralization

Minimal

[Fibroadenoma TGLS = 1-8]

Fibroadenoma

Mesentery

Fat

Necrosis

Mild

[Necrosis TGLS = 2-9]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 133

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Spleen
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Minimal
* Lung		Hyperplasia	Adenomatous, Moderate
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 134

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 708
HISTO: 93-42128-349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Marked
		Inflammation	Chronic, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-8]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 135

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Parathyroid Gland

* Kidney
* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver

* Lung
* Pancreas
* Pituitary Gland
* Spleen
* Thymus

Alveolus
Acinus

Hyperplasia
Basophilic Focus
Inflammation
Infiltration Cellular
Degeneration
Pigmentation
Pigmentation
Atrophy

Minimal
Minimal
Chronic, Minimal
Histiocyte, Minimal
Minimal
Hemosiderin, Minimal
Hemosiderin, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 136

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 600
HISTO: 93-42128-284

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Adrenal Cortex
* Kidney
* Ovary
* Spleen
* Uterus

* Adrenal Medulla
* Liver
* Pancreas
* Thymus

* Heart
* Lung
* Parathyroid Gland
* Thyroid Gland

* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pituitary Gland
* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

Animal Note: No tissue available except tail.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 137

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 651
HISTO: 93-42128-350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 138

TRT#: 3

SEX: Female

DAY ON TEST: 726

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

Stomach, Forestomach

Stomach, Glandular

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Mild

Clitoral Gland

Adenoma

[Adenoma TGLS = 1-8]

* Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Inflammation

Chronic, Mild

* Lung

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2-9]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-3]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Mild

* Uterus

Sarcoma Stromal

[Sarcoma Stromal TGLS = 3-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 139	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-127
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Spleen	* Thyroid Gland		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[Adenoma TGLS = 1-3]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 140

TRT#: 3

SEX: Female

DAY ON TEST: 572

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Spleen

* Thyroid Gland

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Medulla

Pheochromocytoma Benign

[Pheochromocytoma Benign TGLS = 2-3]

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

[Infiltration Cellular TGLS = 3-4]

Mammary Gland

Adenoma

Carcinoma

[Adenoma TGLS = 1-8]

[Carcinoma TGLS = 1-8]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

[Hyperplasia TGLS = 4-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 141	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-270
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild
	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 142

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 506
HISTO: 93-42128-005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 143	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-264
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:29
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 144	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 401 HISTO: 93-42128-025
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 145

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Urinary Bladder

* Uterus

OBSERVATIONS

* Liver

Basophilic Focus

Moderate

Eosinophilic Focus

Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Mesentery

Fat

Necrosis

Moderate

[Necrosis TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Moderate

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:29

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 146

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Ovary

* Islets, Pancreatic
* Pancreas

* Kidney
* Parathyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex
* Heart
* Liver

Hyperplasia
Cardiomyopathy
Basophilic Focus
Eosinophilic Focus
Inflammation

Minimal
Minimal
Moderate
Minimal

* Lung

Hyperplasia
Inflammation
Mineralization

Chronic, Minimal
Adenomatous, Mild
Chronic, Minimal
Minimal

* Pituitary Gland
[Adenoma TGLS = 4-3]

Artery
Pars Distalis

Adenoma

* Spleen
* Thymus
* Thyroid Gland
* Uterus

Pigmentation
Atrophy
Hyperplasia
Dilatation
Polyp Stromal

Hemosiderin, Minimal
Mild
Minimal
Marked

[Polyp Stromal TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 147	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 721 HISTO: 93-42128-351
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Periportal	Fatty Change	Moderate
Mammary Gland [Fibroadenoma TGLS = 1-8]		Fibroadenoma	
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 148	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 722 HISTO: 93-42128-352
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Periportal	Fatty Change	Minimal
		Inflammation	Chronic, Minimal
* Lung		Congestion	Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-8]			
[Hyperplasia TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 149

TRT#: 3

SEX: Female

DAY ON TEST: 617

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Urinary Bladder

* Ovary

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Adrenal Medulla
* Heart
* Kidney

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Pigmentation
Basophilic Focus
Degeneration
Leukemia Mononuclear

Minimal
Minimal
Mild

* Liver

[Degeneration TGLS = 4-1]

* Lung

Artery
Acinus

Leukemia Mononuclear
Mineralization
Degeneration
Leukemia Mononuclear

Minimal
Minimal

* Pancreas

* Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Cyst
Pigmentation

Mild
Hemosiderin, Mild

[Adenoma TGLS = 3-3]

Skin

[Inflammation TGLS = 2-8]

* Spleen

Inflammation

Acute, Moderate

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

* Uterus

Atrophy
Leukemia Mononuclear

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 150

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

* Liver

Basophilic Focus

Mild

Inflammation

Chronic, Minimal

Leukemia Mononuclear

Mammary Gland

Fibroadenoma

Multiple

[Fibroadenoma TGLS = 1-8,2-9]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 151

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 673
HISTO: 93-42128-M01

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Adrenal Cortex
* Kidney
* Ovary
* Spleen
* Uterus

* Adrenal Medulla
* Liver
* Pancreas
* Thymus

* Heart
* Lung
* Parathyroid Gland
* Thyroid Gland

* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pituitary Gland
* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

Animal Note: No tissue available except tail.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 152	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-275
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Pituitary Gland	* Spleen	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Marked
		Inflammation	Chronic, Mild
* Lung		Hyperplasia	Adenomatous, Mild
		Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 153

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Parathyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Thyroid Gland

* Heart
* Ovary
* Urinary Bladder

* Islets, Pancreatic
* Pancreas
* Uterus

OBSERVATIONS

* Liver

Basophilic Focus
Eosinophilic Focus
Leukemia Mononuclear
Infiltration Cellular
Cyst
Leukemia Mononuclear
Atrophy

Mild
Minimal
Histiocyte, Minimal
Mild
Mild

* Lung
* Pituitary Gland
* Spleen
* Thymus

Alveolus
Pars Distalis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 154

TRT#: 3

SEX: Female

DAY ON TEST: 729

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

* Liver

Basophilic Focus

Minimal

* Lung

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2-8]

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Mild

[Adenoma TGLS = 4-3]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Mild

* Uterus

Sarcoma Stromal

[Sarcoma Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 155

TRT#: 3

SEX: Female

DAY ON TEST: 701

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Ovary

* Thyroid Gland

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Kidney

Pigmentation

Minimal

* Liver

Centrilobular

Fatty Change

Marked

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

Necrosis

Mild

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 156	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 435 HISTO: 93-42128-021
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Spleen	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland	
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OBSERVATIONS

* Kidney		Hemorrhage	Minimal
* Liver	Periportal	Fatty Change	Minimal
* Lung	Artery	Mineralization	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 157

TRT#: 3

SEX: Female

DAY ON TEST: 727

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Urinary Bladder

* Uterus

OBSERVATIONS

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

* Lung

Inflammation

Chronic, Minimal

Hyperplasia

Adenomatous, Mild

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 158

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Natural Death

DAY ON TEST: 534
HISTO: 93-42128-033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Thymus	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 159	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-147
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
Mammary Gland [Fibroadenoma TGLS = 1-8]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[Adenoma TGLS = 2-3]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 160

TRT#: 3

SEX: Female

DAY ON TEST: 624

DOSE: 91F

DISP: Moribund Sacrifice

HISTO: 93-42128-037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Thyroid Gland

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Pigmentation

Mild

* Liver

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Ovary

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 161

TRT#: 3

SEX: Female

DAY ON TEST: 547

DOSE: 91F

DISP: Natural Death

HISTO: 93-42128-061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hypertrophy

Minimal

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Pigmentation

Minimal

* Liver

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Ovary

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Moderate

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 162

TRT#: 3

SEX: Female

DAY ON TEST: 726

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Spleen

* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Minimal

* Liver

Basophilic Focus

Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 163	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-126
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Inflammation	Chronic, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 164	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 709 HISTO: 93-42128-354
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Spleen
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lung

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Liver		Basophilic Focus	Marked
		Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-3]			
* Thymus		Atrophy	Mild
		Cyst	Minimal
* Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 165

TRT#: 3

SEX: Female

DAY ON TEST: 726

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
* Lung	Artery	Mineralization	Minimal
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 166

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 625
HISTO: 93-42128-043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 167

TRT#: 3

SEX: Female

DAY ON TEST: 596

DOSE: 91F

DISP: Natural Death

HISTO: 93-42128-080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Ovary
* Urinary Bladder

* Heart
* Pancreas

* Islets, Pancreatic
* Parathyroid Gland

* Lymph Node, Mesenteric
* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Kidney

[Nephropathy TGLS = 1-2]

* Liver

* Lung

Alveolus
Artery

Mammary Gland

[Fibroadenoma TGLS = 2-8]

* Pituitary Gland

[Adenoma TGLS = 3-3]

* Spleen

* Thymus

Pars Distalis

Angiectasis
Nephropathy

Basophilic Focus
Inflammation
Infiltration Cellular
Mineralization
Fibroadenoma

Adenoma

Hematopoietic Cell Proliferation
Atrophy

Mild
Minimal

Minimal
Chronic, Minimal
Histiocyte, Minimal
Minimal

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 168	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-165
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Spleen	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:30
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 169	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-183
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Parathyroid Gland	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 7-1]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 170

TRT#: 3
DOSE: 91F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 93-42128-175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Pituitary Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 171	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-195
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Uterus

MISSING

* Thymus	* Urinary Bladder
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OBSERVATIONS

* Liver		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 172

TRT#: 3

SEX: Female

DAY ON TEST: 728

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Spleen

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver

Basophilic Focus

Mild

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 2-9]

* Lung

Inflammation

Chronic, Minimal

Mineralization

Minimal

Artery

Fibroadenoma

Multiple

Mammary Gland

[Fibroadenoma TGLS = 1-10,3-8]

* Ovary

Cyst

Minimal

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Moderate

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 173	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-214
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	

OBSERVATIONS

* Liver		Basophilic Focus Inflammation	Mild Chronic, Minimal
* Lung		Hyperplasia	Adenomatous, Moderate
Mammary Gland [Fibroadenoma TGLS = 1-8,2-9]		Fibroadenoma	Multiple
Mesentery [Necrosis TGLS = 3-10]	Fat	Necrosis	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Mild
* Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 174

TRT#: 3

SEX: Female

DAY ON TEST: 728

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Spleen

* Heart
* Ovary
* Urinary Bladder

* Islets, Pancreatic
* Pancreas

* Kidney
* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex
Clitoral Gland
* Liver

Hyperplasia
Squamous Cell Papilloma
Basophilic Focus
Inflammation

Minimal

Minimal
Chronic, Minimal

* Lung
* Pituitary Gland

Artery
Pars Distalis
Pars Distalis

Mineralization
Cyst

Minimal
Mild

* Thyroid Gland
* Uterus

C Cell
Endometrium

Hyperplasia
Hyperplasia
Polyp Stromal

Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 175	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 568 HISTO: 93-42128-007
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 176

TRT#: 3

SEX: Female

DAY ON TEST: 728

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lung
* Thyroid Gland

* Heart
* Lymph Node, Mesenteric
* Urinary Bladder

* Islets, Pancreatic
* Pancreas

* Kidney
* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex
* Liver

Hypertrophy
Basophilic Focus
Clear Cell Focus
Cyst
Granulosa Cell Tumor Benign

Mild
Mild
Minimal
Moderate

[Cyst TGLS = 1-7]

* Pituitary Gland
* Spleen
* Uterus

Pars Distalis

Adenoma
Pigmentation
Dilatation

Hemosiderin, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 177	TRT#: 3 DOSE: 91F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 716 HISTO: 93-42128-298
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Basophilic Focus Inflammation	Minimal Chronic, Mild
* Lung	Artery	Mineralization Fibroadenoma	Minimal
Mammary Gland [Fibroadenoma TGLS = 1-8]			
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 178	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-217
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Kidney		Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Uterus	Bilateral	Dilatation	Moderate
		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 179	TRT#: 3 DOSE: 91F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-219
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mesenteric	* Ovary
* Spleen	* Thyroid Gland	* Uterus	

MISSING

* Parathyroid Gland	* Thymus		
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OBSERVATIONS

* Lung	Artery	Mineralization	Minimal
Mammary Gland [Fibroadenoma TGLS = 1-8,2-9]		Fibroadenoma	Multiple
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 180

TRT#: 3

SEX: Female

DAY ON TEST: 726

DOSE: 91F

DISP: Terminal Sacrifice

HISTO: 93-42128-141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Kidney		Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 1-8]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 3-9,6-10]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-1]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: NTP 91/92 diet study
 CAS Number: DIET9192

Date Report Requested: 10/20/2014
 Time Report Requested: 18:16:30
 First Dose M/F: NA / NA
 Lab: NIEHS

ANIMAL ID: 241	TRT#: 5 DOSE: 92F	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 93-42128-315
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic	* Parathyroid Gland	* Thyroid Gland	* Uterus
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MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Mild Diffuse, Minimal
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Minimal
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Degeneration Pigmentation	Minimal Mild
* Liver	Centrilobular	Fatty Change Leukemia Mononuclear	Marked
* Lung		Carcinoma Leukemia Mononuclear	Metastatic (Tissue Nos)
[Carcinoma TGLS = 3-4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Cyst Leukemia Mononuclear	Moderate
[Cyst TGLS = 2-9]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 4-3]			
* Spleen		Carcinoma Leukemia Mononuclear	Metastatic (Tissue Nos)
[Leukemia Mononuclear TGLS = 1-8]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 241

TRT#: 5

SEX: Female

DAY ON TEST: 701

DOSE: 92F

DISP: Moribund Sacrifice

HISTO: 93-42128-315

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Further tissue sections are warranted to locate the metastatic Lung and Spleen Carcinoma.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 242

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Natural Death

DAY ON TEST: 726
HISTO: 93-42128-316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Lung		Congestion	Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 1-3]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 243

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 93-42128-274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Uterus		

OBSERVATIONS

* Liver	Basophilic Focus	Mild
	Eosinophilic Focus	Minimal
Mammary Gland	Galactocele	Marked
	Hyperplasia	Moderate
[Galactocele TGLS = 1-8]		
* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 244

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Pancreas

* Kidney
* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver

Hyperplasia
Basophilic Focus
Clear Cell Focus

Minimal
Moderate
Minimal

* Lung
Mammary Gland

Artery

Inflammation
Mineralization
Fibroadenoma
Galactocele
Hyperplasia

Chronic, Minimal
Minimal
Multiple
Minimal
Minimal

[Fibroadenoma TGLS = 1-8,2-10]
[Galactocele TGLS = 2-9,3-10]
[Hyperplasia TGLS = 3-10]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-3]

* Spleen
* Thymus

Pigmentation
Atrophy

Hemosiderin, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 245	TRT#: 5 DOSE: 92F	SEX: Female DISP: Natural Death	DAY ON TEST: 531 HISTO: 93-42128-047
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Pigmentation	Mild
* Liver		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 246

TRT#: 5

SEX: Female

DAY ON TEST: 727

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Thyroid Gland

* Ovary

* Pancreas

* Pituitary Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Heart
* Islets, Pancreatic
* Kidney
* Liver

Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear
Pigmentation
Basophilic Focus
Hepatocellular Adenoma
Hyperplasia
Leukemia Mononuclear
Necrosis

Minimal
Metastatic (Spleen)
Minimal
Minimal
Minimal
Moderate

Bile Duct

[Hepatocellular Adenoma TGLS = 4-1]

[Leukemia Mononuclear TGLS = 3-1]

* Lung

Inflammation
Leukemia Mononuclear
Leukemia Mononuclear
Fibroadenoma

Chronic, Minimal

* Lymph Node, Mesenteric
Mammary Gland

[Fibroadenoma TGLS = 1-8]

* Spleen

[Leukemia Mononuclear TGLS = 2-1]

Leukemia Mononuclear

* Thymus

Atrophy

Mild

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Dilatation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 248	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 93-42128-161
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Basophilic Focus	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 249

TRT#: 5

SEX: Female

DAY ON TEST: 727

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	Intestine Large, Cecum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 3-1]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 250

TRT#: 5

SEX: Female

DAY ON TEST: 727

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Pancreas

* Kidney
* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver

Hyperplasia
Eosinophilic Focus
Inflammation
Mineralization
Fibroadenoma

Mild
Minimal
Chronic, Minimal
Minimal

* Lung
Mammary Gland
[Fibroadenoma TGLS = 1-8]

Artery

* Pituitary Gland

Pars Distalis
Pars Distalis

Angiectasis
Hyperplasia
Atrophy
Hyperplasia

Mild
Mild
Minimal
Minimal

* Thymus

* Thyroid Gland

C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 251

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Spleen

* Adrenal Medulla
* Lymph Node, Mesenteric
* Thyroid Gland

* Heart
* Ovary

* Islets, Pancreatic
* Pancreas

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Marked
		Eosinophilic Focus	Minimal
	[Eosinophilic Focus TGLS = 1-1]		
* Lung		Hyperplasia	Adenomatous, Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Bilateral	Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 252

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Pancreas

* Adrenal Medulla
* Parathyroid Gland

* Islets, Pancreatic
* Spleen

* Lymph Node, Mesenteric
* Thyroid Gland

OBSERVATIONS

* Heart
* Kidney
* Liver
* Lung

* Ovary
 [Cyst TGLS = 3-7,5-8]
* Pituitary Gland
 [Adenoma TGLS = 7-3]
* Thymus
* Urinary Bladder
* Uterus

Alveolus
Artery

Pars Distalis

Endometrium

Cardiomyopathy
Nephropathy
Basophilic Focus
Infiltration Cellular
Mineralization
Cyst

Adenoma

Atrophy
Infiltration Cellular
Polyp Stromal

Minimal
Minimal
Moderate
Histiocyte, Minimal
Minimal
Marked

Mild
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 253

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Lymph Node, Mesenteric

* Adrenal Medulla
* Ovary

* Heart
* Pancreas

* Islets, Pancreatic
* Urinary Bladder

MISSING

* Parathyroid Gland

* Pituitary Gland

* Thyroid Gland

OBSERVATIONS

* Kidney

Nephropathy
Sarcoma

Minimal

[Sarcoma TGLS = 1-8]

* Liver
* Lung
* Spleen
* Thymus
* Uterus

Basophilic Focus
Hyperplasia
Pigmentation
Atrophy
Dilatation

Mild
Adenomatous, Moderate
Hemosiderin, Minimal
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 254

TRT#: 5

SEX: Female

DAY ON TEST: 547

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Liver		Fatty Change	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 3-4]			
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Moderate
[Cyst TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 255	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-257
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 256

TRT#: 5

SEX: Female

DAY ON TEST: 728

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Mild

Clitoral Gland

Fibroma

[Fibroma TGLS = 1-10]

* Kidney

Pigmentation

Minimal

* Liver

Basophilic Focus

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-1]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2-9]

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Thymus

Atrophy

Mild

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 5-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 257

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: 92F

DISP: Moribund Sacrifice

HISTO: 93-42128-318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Thyroid Gland

* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney

Hydronephrosis

Mild

* Liver

Basophilic Focus

Mild

* Lung

Alveolus

Leukemia Mononuclear

Infiltration Cellular

Histiocyte, Mild

Leukemia Mononuclear

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

Multiple

[Fibroadenoma TGLS = 1-8,2-9]

* Ovary

Cyst

Mild

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-1]

* Thymus

Atrophy

Mild

* Uterus

Dilatation

Moderate

[Dilatation TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 258	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-225
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
* Lung		Inflammation	Chronic, Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 259

TRT#: 5

SEX: Female

DAY ON TEST: 673

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lung
* Thyroid Gland

* Heart
* Lymph Node, Mesenteric
* Urinary Bladder

* Islets, Pancreatic
* Ovary

* Kidney
* Spleen

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver
Mammary Gland

Hyperplasia
Basophilic Focus
Fibroadenoma

Minimal
Moderate

[Fibroadenoma TGLS = 1-8]

* Pancreas
* Pituitary Gland
* Thymus
* Uterus

Acinus
Pars Distalis
Bilateral

Degeneration
Hyperplasia
Atrophy
Dilatation

Minimal
Mild
Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 260

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: 92F

DISP: Moribund Sacrifice

HISTO: 93-42128-319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Heart	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Thyroid Gland	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	Mild
	Centrilobular	Degeneration	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Lung		Hyperplasia	Adenomatous, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Degeneration	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 261

TRT#: 5

SEX: Female

DAY ON TEST: 726

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Spleen

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Mild

Hypertrophy

Minimal

Vacuolization Cytoplasmic

Focal, Minimal

[Hyperplasia TGLS = 3-3]

Eye

Bilateral

Degeneration

Moderate

[Degeneration TGLS = 5-8]

* Liver

Basophilic Focus

Moderate

Clear Cell Focus

Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 262

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Uterus

* Heart
* Ovary

* Islets, Pancreatic
* Pancreas

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Liver

Basophilic Focus
Inflammation
Congestion
Infiltration Cellular
Adenoma

Minimal
Chronic, Minimal
Minimal
Histiocyte, Minimal

* Lung

Alveolus
Pars Distalis

* Pituitary Gland

[Adenoma TGLS = 1-3]

* Spleen

Pigmentation
Infiltration Cellular

Hemosiderin, Minimal
Lymphocyte, Minimal

* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 263

TRT#: 5

SEX: Female

DAY ON TEST: 726

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Uterus

MISSING

* Thymus

OBSERVATIONS

* Kidney

Infiltration Cellular

Lymphocyte, Minimal

* Liver

Basophilic Focus

Minimal

Inflammation

Chronic, Minimal

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Inguinal

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Pancreas

Acinus

Degeneration

Mild

* Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 264	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-130
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland	Inguinal	Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 265

TRT#: 5

SEX: Female

DAY ON TEST: 701

DOSE: 92F

DISP: Moribund Sacrifice

HISTO: 93-42128-321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Ovary

* Pancreas

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

* Thymus

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex

Hyperplasia

Mild

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

* Liver

Centrilobular

Degeneration

Marked

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-1]

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Leukemia Mononuclear

[Hyperplasia TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 266	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-265
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Thyroid Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 267

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Pancreas
* Uterus

* Islets, Pancreatic
* Parathyroid Gland

MISSING

* Thymus

OBSERVATIONS

* Liver
* Lung
Mammary Gland

Alveolus

Basophilic Focus
Infiltration Cellular
Fibroadenoma

Moderate
Histiocyte, Minimal
Multiple

[Fibroadenoma TGLS = 1-8,3-9,4-10]

* Ovary
* Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Adenoma
Angiectasis

Mild
Mild

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 268

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Liver
* Urinary Bladder

* Adrenal Medulla
* Lymph Node, Mesenteric

* Heart
* Ovary

* Kidney
* Spleen

MISSING

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Thyroid Gland

OBSERVATIONS

* Lung

Congestion
Hyperplasia
Mineralization
Adenoma

Mild
Adenomatous, Moderate
Minimal

* Pituitary Gland
[Adenoma TGLS = 1-3]

Artery
Pars Distalis

* Thymus

Atrophy

Mild

* Uterus
[Polyp Stromal TGLS = 2-8]

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 269

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Natural Death

DAY ON TEST: 384
HISTO: 93-42128-029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Pancreas	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland	* Thymus		
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OBSERVATIONS

* Liver		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 270

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 617
HISTO: 93-42128-042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-8]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 271

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	Skin
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Mild
	[Hepatodiaphragmatic Nodule TGLS = 4-8]		
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 2-10,3-11]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-3]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 272

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 93-42128-102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Uterus

OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 273

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 701
HISTO: 93-42128-323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Mild
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 274	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-254
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Ovary	* Pancreas	* Pituitary Gland
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus Inflammation Leukemia Mononuclear	Moderate Chronic, Minimal
* Lung	Artery	Inflammation Mineralization Leukemia Mononuclear	Chronic, Minimal Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 275

TRT#: 5

SEX: Female

DAY ON TEST: 673

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-9]		
	[Leukemia Mononuclear TGLS = 2-1]		
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-1]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 276

TRT#: 5

SEX: Female

DAY ON TEST: 540

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Uterus

* Adrenal Medulla
* Lymph Node, Mesenteric

* Heart
* Ovary

* Islets, Pancreatic
* Parathyroid Gland

OBSERVATIONS

* Liver
* Lung

* Pancreas
* Pituitary Gland
 [Adenoma TGLS = 1-3]
* Spleen
* Thymus
* Thyroid Gland
* Urinary Bladder

Artery
Acinus
Pars Distalis

C Cell

Eosinophilic Focus
Congestion
Mineralization
Degeneration
Adenoma

Pigmentation
Atrophy
Adenoma
Infiltration Cellular

Minimal
Mild
Minimal
Minimal

Hemosiderin, Mild
Mild

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 277

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 621
HISTO: 93-42128-084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Inflammation	Chronic, Minimal
Mammary Gland [Fibroadenoma TGLS = 1-8]		Fibroadenoma	
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 278	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-228
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Uterus	

MISSING

* Urinary Bladder

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Ovary		Cyst	Mild
[Cyst TGLS = 2-7]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 279

TRT#: 5

SEX: Female

DAY ON TEST: 728

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

* Spleen

* Uterus

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

Clitoral Gland

Squamous Cell Papilloma

* Kidney

Pigmentation

Minimal

* Liver

Basophilic Focus

Moderate

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 2-8]

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Adenoma

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 280

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 572
HISTO: 93-42128-058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Thyroid Gland	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Liver		Inflammation	Chronic, Minimal
* Lung		Congestion	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 281

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 93-42128-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Spleen	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
* Lung		Hyperplasia	Adenomatous, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 282	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 93-42128-135
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Spleen	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

Clitoral Gland [Adenoma TGLS = 1-8]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland [Fibroadenoma TGLS = 2-9]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 283

TRT#: 5

SEX: Female

DAY ON TEST: 602

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Spleen

* Urinary Bladder

* Uterus

MISSING

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex

Angiectasis

Mild

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

Inflammation

Chronic, Mild

Necrosis

Mild

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8,9]

* Ovary

Leiomyoma

* Pituitary Gland

Pars Distalis

Cyst

Mild

* Thyroid Gland

Follicle

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 284

TRT#: 5

SEX: Female

DAY ON TEST: 602

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Kidney

* Ovary

* Thyroid Gland

* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex

Vacuolization Cytoplasmic

Focal, Minimal

* Liver

Centrilobular

Fatty Change

Moderate

Leukemia Mononuclear

[Fatty Change TGLS = 2-1]

* Lung

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 285

TRT#: 5

SEX: Female

DAY ON TEST: 525

DOSE: 92F

DISP: Natural Death

HISTO: 93-42128-054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic
* Uterus

* Parathyroid Gland

* Thyroid Gland

* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex

Degeneration

Mild

Leukemia Mononuclear

* Adrenal Medulla

Hyperplasia

Focal, Mild

* Heart

Leukemia Mononuclear

* Kidney

Pigmentation

Mild

* Liver

Centrilobular

Degeneration

Mild

Periportal

Fatty Change

Minimal

Leukemia Mononuclear

* Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Ovary

Leukemia Mononuclear

* Pancreas

Acinus

Degeneration

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Moderate

[Cyst TGLS = 2-3]

* Spleen

Hemangiosarcoma

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 286

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 93-42128-187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
* Lung		Hyperplasia	Adenomatous, Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 287

TRT#: 5

SEX: Female

DAY ON TEST: 727

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Heart

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Ovary

* Pancreas

* Parathyroid Gland

MISSING

* Urinary Bladder

OBSERVATIONS

* Kidney

Pigmentation

Minimal

* Liver

Basophilic Focus

Moderate

* Lung

Periportal

Fatty Change

Minimal

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic, Minimal

Mesentery

Artery

Mineralization

Minimal

* Pituitary Gland

Fat

Necrosis

Moderate

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Mild

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 288

TRT#: 5

SEX: Female

DAY ON TEST: 727

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Pancreas

* Heart
* Parathyroid Gland

* Islets, Pancreatic
* Thyroid Gland

* Lymph Node, Mesenteric
* Uterus

OBSERVATIONS

* Adrenal Cortex
Eye

Hyperplasia
Degeneration

Moderate
Moderate

[Degeneration TGLS = 3-9]

* Kidney

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

* Lung

Artery

Mineralization

Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8]

* Ovary

Cyst

Mild

[Cyst TGLS = 2-7]

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 289

TRT#: 5

SEX: Female

DAY ON TEST: 624

DOSE: 92F

DISP: Moribund Sacrifice

HISTO: 93-42128-078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Spleen
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 290

TRT#: 5
DOSE: 92F

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 93-42128-178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Basophilic Focus	Moderate
[Basophilic Focus TGLS = 2-1]			
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pancreas	Acinus	Degeneration	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 291

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Kidney
* Thyroid Gland

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Pituitary Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
* Pancreas	Acinus	Degeneration	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 292	TRT#: 5 DOSE: 92F	SEX: Female DISP: Natural Death	DAY ON TEST: 505 HISTO: 93-42128-004
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland	* Thymus		
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Periportal	Fatty Change Inflammation	Minimal Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 293

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Lymph Node, Mesenteric
* Urinary Bladder

* Heart
* Ovary
* Uterus

* Islets, Pancreatic
* Spleen

* Kidney
* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Liver
* Lung
* Pancreas
* Pituitary Gland
* Thymus

Artery
Acinus
Pars Distalis

Hyperplasia
Basophilic Focus
Mineralization
Degeneration
Hyperplasia
Atrophy

Moderate
Moderate
Minimal
Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:16:30

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 294

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Islets, Pancreatic
* Pancreas
* Urinary Bladder

* Kidney
* Parathyroid Gland

* Lymph Node, Mesenteric
* Spleen

* Ovary
* Thyroid Gland

MISSING

* Adrenal Medulla

* Thymus

OBSERVATIONS

* Adrenal Cortex
Clitoral Gland
* Heart
* Liver

Vacuolization Cytoplasmic
Squamous Cell Papilloma
Fibrosis
Basophilic Focus
Hepatodiaphragmatic Nodule
Inflammation
Mineralization
Angiectasis
Dilatation

Focal, Minimal
Minimal
Moderate
Chronic, Minimal
Minimal
Mild
Moderate

* Lung
* Pituitary Gland
* Uterus

Artery
Pars Distalis

[Dilatation TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 295	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 93-42128-262
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex Clitoral Gland [Adenoma TGLS = 1-8]		Vacuolization Cytoplasmic Adenoma	Focal, Mild
* Liver [Basophilic Focus TGLS = 2-1]		Basophilic Focus	Marked
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Mild Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 296	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-229
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Liver		Clear Cell Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-9]			
* Ovary		Cyst	Mild
* Pancreas	Acinus	Degeneration	Minimal
* Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 297

TRT#: 5

SEX: Female

DAY ON TEST: 728

DOSE: 92F

DISP: Terminal Sacrifice

HISTO: 93-42128-230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Spleen	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Liver		Basophilic Focus	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 3-3]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 298	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-223
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Spleen	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	Mild
* Lung	Artery	Mineralization	Minimal
Mammary Gland [Fibroadenoma TGLS = 1-8]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 299	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-218
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Heart	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Basophilic Focus	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Inflammation	Acute, Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 92004-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:16:30
First Dose M/F: NA / NA
Lab: NIEHS

ANIMAL ID: 300	TRT#: 5 DOSE: 92F	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 93-42128-222
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Heart	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Spleen	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Islets, Pancreatic	* Pancreas	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Cyst	Mild
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
* Lung	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH -

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE