

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:04

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/20/2014

Test Type: CHRONIC

Test Compound: NTP 91/92 diet study

Time Report Requested: 18:18:05

Species/Strain: Rat/F 344/N

CAS Number: DIET9192

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male 07M	DAY ON TEST	07	07	07	07	07	06	07	07	07	04	06	07	05	07	05	07	06	06	04	07	06	05	07	07	07	07	06	07	07	
	ANIMAL ID	01	08	08	09	01	04	02	07	07	00	09	01	05	06	01	01	04	09	05	05	04	00	00	08	02	02	02	02	05	02
Islets, Pancreatic Adenoma	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland Adenoma	+	+	M	M	+	+	M	M	M	M	+	+	+	+	+	M	+	+	M	M	M	+	M	+	+	+	+	+	M	M	
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Thyroid Gland C Cell, Adenoma	X		X		X			X		X	X								X	X	X			X	X		X	X	X	X	
Thyroid Gland Cystadenoma	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	M	+	
General Body System																															
Peritoneum																															
Genital System																															
Penis																															
Preputial Gland Adenoma			+						+								M														
Seminal Vesicle																															
Testes			+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Interstit Cell, Adenoma	X		X	X		X				X		X		X	X		X		X						X		X		X	X	
Interstit Cell, Adenoma			X					X				X			X							X		X		X		X			
Hematopoietic System																															
Lymph Node																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:05

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

07M

ANIMAL ID

*TOTALS

Alimentary System

Liver	57
Hepatocellular Adenoma	3
Hepatocellular Carcinoma	1
Mesentery	8
Lipoma	1
Pancreas	56
Stomach, Forestomach	4
Stomach, Glandular	1
Tongue	1
Squamous Cell Papilloma	1

Cardiovascular System

Heart	57
Schwannoma Malignant	2

Endocrine System

Adrenal Cortex	56
Adenoma	1
Adrenal Medulla	56
Bilateral, Pheochromocytoma Benign	7
Pheochromocytoma Benign	10
Pheochromocytoma Malignant	1
Islets, Pancreatic	56

* ..Total animals with tissue examined microscopically; Total animals with tumor

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I ..Insufficient tissue

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Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:05

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

**F 344/N Rat Male
07M**

ANIMAL ID

***TOTALS**

Adenoma	5
Parathyroid Gland	36
Adenoma	1
Pituitary Gland	55
Pars Distalis, Adenoma	26
Thyroid Gland	51
C Cell, Adenoma	5
Cystadenoma	1
General Body System	
Peritoneum	1
Genital System	
Penis	1
Preputial Gland	5
Adenoma	4
Seminal Vesicle	2
Testes	56
Bilateral, Interstit Cell, Adenoma	36
Interstit Cell, Adenoma	12
Hematopoietic System	
Lymph Node	1
Lymph Node, Mandibular	2
Lymph Node, Mesenteric	56

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Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:05

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

**F 344/N Rat Male
07M**

ANIMAL ID

***TOTALS**

Spleen	57
Osteosarcoma	1
Thymus	30
Thymoma Benign	2
Integumentary System	
Mammary Gland	5
Adenocarcinoma	1
Adenoma	1
Carcinoma	1
Fibroadenoma	2
Skin	10
Fibroma	2
Keratoacanthoma	3
Melanoma Malignant	1
Squamous Cell Carcinoma	1
Subcut Tiss, Fibroma	2
Musculoskeletal System	
NONE	
Nervous System	
Brain	1
Brain, Cerebellum	1
Respiratory System	

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Species/Strain: Rat/F 344/N

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Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:18:06
First Dose M/F: NA / NA
Lab: NIEHS

DAY ON TEST

F 344/N Rat Male
07M

ANIMAL ID

*TOTALS

Lung	57
Alveolar/Bronchiolar Adenoma	1
Alveolar/Bronchiolar Carcinoma	1
Squamous Cell Carcinoma	1
Special Senses System	
NONE	
Urinary System	
Kidney	57
Urinary Bladder	55
SYSTEMIC LESIONS	
Multiple Organ	57
Leukemia Mononuclear	32
Mesothelioma Malignant	3

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Experiment Number: 92004-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/20/2014

Test Type: CHRONIC

Test Compound: NTP 91/92 diet study

Time Report Requested: 18:18:07

Species/Strain: Rat/F 344/N

CAS Number: DIET9192

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male
91M

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	6	5	7	7	7	7	7	7	7	7	5	7	6	7	7	5	7	7	7	3	5	7	7	7	7	6	7	7
	8	4	6	2	0	0	2	2	0	2	2	5	2	3	2	0	0	2	2	2	3	6	1	2	0	2	1	2	2
	2	6	2	7	1	1	6	6	1	7	7	7	7	8	8	1	3	8	8	7	7	1	2	7	1	9	5	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Subcut Tiss, Fibroma

X

X

Trichoepithelioma

X

Musculoskeletal System

NONE

Nervous System

Brain

Brain, Cerebrum

+

Respiratory System

Lung

+ + + + + + + + + + M + + + + + + + + + + + + + + + + +

Special Senses System

Zymbal's Gland

+

Adenoma

X

Urinary System

Kidney

+ +

Urinary Bladder

+ + + + + + + + + + + M + + + + + + + + + + + + + + + +

SYSTEMIC LESIONS

Multiple Organ

+ +

Leukemia Mononuclear

X X

Mesothelioma Malignant

X

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Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:07

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

91M

ANIMAL ID

***TOTALS**

Alimentary System

| | |
|------------------------|----|
| Liver | 60 |
| Hepatocellular Adenoma | 1 |
| Mesentery | 4 |
| Pancreas | 59 |

Cardiovascular System

| | |
|----------------------|----|
| Heart | 60 |
| Schwannoma Malignant | 2 |

Endocrine System

| | |
|------------------------------------|----|
| Adrenal Cortex | 60 |
| Adrenal Medulla | 60 |
| Bilateral, Pheochromocytoma Benign | 2 |
| Pheochromocytoma Benign | 10 |
| Islets, Pancreatic | 59 |
| Adenoma | 6 |
| Parathyroid Gland | 41 |
| Pituitary Gland | 58 |
| Pars Distalis, Adenoma | 25 |
| Thyroid Gland | 58 |
| C Cell, Adenoma | 9 |
| Follicular Cel, Adenoma | 1 |

General Body System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:07

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

91M

ANIMAL ID

*TOTALS

NONE

Genital System

| | |
|------------------------------------|----|
| Preputial Gland | 3 |
| Adenoma | 3 |
| Seminal Vesicle | 3 |
| Testes | 60 |
| Bilateral, Interstit Cell, Adenoma | 42 |
| Interstit Cell, Adenoma | 11 |

Hematopoietic System

| | |
|------------------------|----|
| Lymph Node | 1 |
| Lymph Node, Mesenteric | 57 |
| Spleen | 59 |
| Thymus | 46 |

Integumentary System

| | |
|----------------------|---|
| Mammary Gland | 1 |
| Fibroadenoma | 1 |
| Skin | 9 |
| Basal Cell Carcinoma | 2 |
| Fibroma | 2 |
| Subcut Tiss, Fibroma | 3 |
| Trichoepithelioma | 1 |

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

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Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:07

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

91M

ANIMAL ID

*TOTALS

| NONE | |
|------------------------------|----|
| Nervous System | |
| Brain | 1 |
| Brain, Cerebrum | 1 |
| Respiratory System | |
| Lung | 59 |
| Special Senses System | |
| Zymbal's Gland | 1 |
| Adenoma | 1 |
| Urinary System | |
| Kidney | 60 |
| Urinary Bladder | 59 |
| SYSTEMIC LESIONS | |
| Multiple Organ | 60 |
| Leukemia Mononuclear | 31 |
| Mesothelioma Malignant | 3 |

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:08

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

92M

ANIMAL ID

***TOTALS**

Alimentary System

| | |
|-----------------|----|
| Liver | 56 |
| Mesentery | 5 |
| Pancreas | 52 |
| Salivary Glands | 1 |

Cardiovascular System

| | |
|-------|----|
| Heart | 56 |
|-------|----|

Endocrine System

| | |
|------------------------------------|----|
| Adrenal Cortex | 56 |
| Adrenal Medulla | 56 |
| Bilateral, Pheochromocytoma Benign | 1 |
| Pheochromocytoma Benign | 6 |
| Islets, Pancreatic | 52 |
| Adenoma | 1 |
| Parathyroid Gland | 40 |
| Adenoma | 1 |
| Pituitary Gland | 56 |
| Pars Distalis, Adenoma | 18 |
| Pars Distalis, Carcinoma | 1 |
| Thyroid Gland | 56 |
| C Cell, Adenoma | 1 |
| Follicular Cel, Adenoma | 1 |

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+ ..Tissue examined microscopically

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Species/Strain: Rat/F 344/N

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CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:08

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Male

92M

ANIMAL ID

*TOTALS

General Body System

Peritoneum 2

Genital System

Preputial Gland 3

Adenoma 2

Squamous Cell Papilloma 1

Seminal Vesicle 5

Testes 56

Bilateral, Interstit Cell, Adenoma 37

Interstit Cell, Adenoma 14

Hematopoietic System

Lymph Node 2

Lymph Node, Mandibular 1

Lymph Node, Mesenteric 54

Spleen 56

Fibroma 1

Fibrous Histiocytoma 1

Thymus 38

Integumentary System

Mammary Gland 3

Fibroadenoma 2

Inguinal, Fibroadenoma 1

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+ ..Tissue examined microscopically

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Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:08

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

**F 344/N Rat Male
92M**

ANIMAL ID

***TOTALS**

| | |
|--------------------------------|----|
| Skin | 3 |
| Keratoacanthoma | 2 |
| Subcut Tiss, Fibroma | 1 |
| Musculoskeletal System | |
| Bone | 1 |
| Vertebra, Osteosarcoma | 1 |
| Nervous System | |
| Brain, Cerebellum | 1 |
| Respiratory System | |
| Lung | 56 |
| Alveolar/Bronchiolar Adenoma | 1 |
| Alveolar/Bronchiolar Carcinoma | 1 |
| Osteosarcoma, Metastatic, Bone | 1 |
| Squamous Cell Carcinoma | 1 |
| Special Senses System | |
| Zymbal's Gland | 1 |
| Carcinoma | 1 |
| Urinary System | |
| Kidney | 56 |
| Urinary Bladder | 52 |
| Papilloma | 1 |

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+ ..Tissue examined microscopically

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I ..Insufficient tissue

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:18:08
First Dose M/F: NA / NA
Lab: NIEHS

DAY ON TEST

F 344/N Rat Male
92M

ANIMAL ID

*TOTALS

SYSTEMIC LESIONS

| | |
|------------------------|----|
| Multiple Organ | 56 |
| Leukemia Mononuclear | 27 |
| Mesothelioma Malignant | 2 |

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with tumor
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M ..Missing tissue
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Experiment Number: 92004-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/20/2014

Test Type: CHRONIC

Test Compound: NTP 91/92 diet study

Time Report Requested: 18:18:10

Species/Strain: Rat/F 344/N

CAS Number: DIET9192

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female
07F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 5 | 3 | 7 | 5 | 7 | 6 | 7 | 7 | |
| | 1 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 6 | 3 | 0 | 2 | 9 | 2 | 2 | 0 | 2 | 2 | 9 | 2 | 6 | 8 | 5 | 2 | 6 | 2 | 7 | 2 | 2 |
| | 6 | 0 | 9 | 9 | 9 | 1 | 9 | 9 | 5 | 4 | 1 | 8 | 3 | 8 | 6 | 1 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 6 | 2 | 9 | 0 | 9 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenocarcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | X | | | | X | X | | | | | | | | X | | | | X | X | X | | | X | X | | X | | | |
| Fibroadenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcut Tiss, Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
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Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:10

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female

07F

ANIMAL ID

*TOTALS

Alimentary System

| | |
|--|----|
| Intestine Large, Colon | 1 |
| Liver | 56 |
| Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla | 1 |
| Mesentery | 2 |
| Pancreas | 55 |

Cardiovascular System

| | |
|-------|----|
| Heart | 56 |
|-------|----|

Endocrine System

| | |
|---------------------------------------|----|
| Adrenal Cortex | 56 |
| Adrenal Medulla | 55 |
| Bilateral, Pheochromocytoma Malignant | 1 |
| Pheochromocytoma Benign | 3 |
| Islets, Pancreatic | 55 |
| Parathyroid Gland | 36 |
| Pituitary Gland | 55 |
| Pars Distalis, Adenoma | 33 |
| Thyroid Gland | 54 |
| C Cell, Adenoma | 4 |
| Cystadenoma | 1 |
| Follicular Cel, Adenoma | 1 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:10

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female
07F

ANIMAL ID

*TOTALS

General Body System

NONE

Genital System

| | |
|-----------------------------|----|
| Clitoral Gland | 7 |
| Adenoma | 3 |
| Carcinoma | 3 |
| Ovary | 55 |
| Granulosa Cell Tumor Benign | 2 |
| Tubulostromal Carcinoma | 1 |
| Uterus | 52 |
| Endometrium, Polyp Stromal | 3 |

Hematopoietic System

| | |
|--------------------------------|----|
| Lymph Node, Mesenteric | 56 |
| Spleen | 56 |
| Thymus | 40 |
| Osteosarcoma, Metastatic, Bone | 1 |
| Thymoma Benign | 1 |

Integumentary System

| | |
|----------------|----|
| Mammary Gland | 29 |
| Adenocarcinoma | 2 |
| Adenoma | 1 |
| Fibroadenoma | 23 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:10

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female

07F

ANIMAL ID

*TOTALS

| | |
|---------------------------------------|----|
| Fibroadenoma, Multiple | 4 |
| Skin | 4 |
| Carcinoma, Metastatic, Zymbal'S Gland | 1 |
| Subcut Tiss, Lipoma | 1 |
| Musculoskeletal System | |
| Bone | 1 |
| Rib, Osteosarcoma | 1 |
| Nervous System | |
| NONE | |
| Respiratory System | |
| Lung | 56 |
| Carcinoma, Metastatic, Zymbal'S Gland | 1 |
| Osteosarcoma, Metastatic, Bone | 1 |
| Special Senses System | |
| Zymbal's Gland | 1 |
| Carcinoma | 1 |
| Urinary System | |
| Kidney | 56 |
| Urinary Bladder | 54 |
| Adenoma | 1 |

SYSTEMIC LESIONS

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

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

DAY ON TEST

F 344/N Rat Female
07F

ANIMAL ID

*TOTALS

| | |
|-----------------------|----|
| Multiple Organ | 56 |
| Histiocytic Sarcoma | 1 |
| Leukemia Granulocytic | 1 |
| Leukemia Mononuclear | 15 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:11

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female

91F

ANIMAL ID

*TOTALS

Alimentary System

| | |
|------------------------|----|
| Liver | 56 |
| Hepatocellular Adenoma | 1 |
| Mesentery | 3 |
| Pancreas | 58 |
| Stomach, Forestomach | 1 |
| Stomach, Glandular | 1 |

Cardiovascular System

| | |
|-------|----|
| Heart | 57 |
|-------|----|

Endocrine System

| | |
|-------------------------|----|
| Adrenal Cortex | 58 |
| Adrenal Medulla | 58 |
| Pheochromocytoma Benign | 2 |
| Islets, Pancreatic | 58 |
| Parathyroid Gland | 40 |
| Pituitary Gland | 57 |
| Pars Distalis, Adenoma | 31 |
| Pars Intermed, Adenoma | 1 |
| Thyroid Gland | 55 |
| C Cell, Adenoma | 1 |

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:11

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female

91F

ANIMAL ID

*TOTALS

Genital System

| | |
|-----------------------------|----|
| Clitoral Gland | 5 |
| Adenoma | 3 |
| Squamous Cell Papilloma | 1 |
| Ovary | 57 |
| Granulosa Cell Tumor Benign | 1 |
| Uterus | 57 |
| Endometrium, Polyp Stromal | 5 |
| Sarcoma Stromal | 2 |

Hematopoietic System

| | |
|------------------------|----|
| Lymph Node, Mesenteric | 58 |
| Spleen | 58 |
| Thymus | 39 |

Integumentary System

| | |
|------------------------|----|
| Mammary Gland | 26 |
| Adenoma | 1 |
| Carcinoma | 1 |
| Fibroadenoma | 20 |
| Fibroadenoma, Multiple | 5 |
| Skin | 2 |
| Subcut Tiss, Fibroma | 1 |

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: NTP 91/92 diet study
CAS Number: DIET9192

Date Report Requested: 10/20/2014
Time Report Requested: 18:18:11
First Dose M/F: NA / NA
Lab: NIEHS

DAY ON TEST

F 344/N Rat Female
91F

ANIMAL ID

*TOTALS

| | |
|------------------------------|----|
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| Lung | 57 |
| Alveolar/Bronchiolar Adenoma | 1 |
| Special Senses System | |
| Lacrimal Gland | 1 |
| Adenoma | 1 |
| Urinary System | |
| Kidney | 58 |
| Urinary Bladder | 56 |
| SYSTEMIC LESIONS | |
| Multiple Organ | 58 |
| Leukemia Mononuclear | 16 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 92004-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/20/2014

Test Type: CHRONIC

Test Compound: NTP 91/92 diet study

Time Report Requested: 18:18:12

Species/Strain: Rat/F 344/N

CAS Number: DIET9192

First Dose M/F: NA / NA

Lab: NIEHS

| F 344/N Rat Female
92F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 0 | 2 | 7 | 4 | 2 | 2 | 2 | 7 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 1 | 9 | 3 | 0 | 1 | 8 | 8 | 2 | 6 | 6 | 2 | 2 | 5 | 7 | 7 | 7 | 4 | 7 | 9 | 5 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Alimentary System

Intestine Large, Cecum

Liver

Hepatocellular Adenoma

Mesentery

Pancreas

Cardiovascular System

Heart

Endocrine System

Adrenal Cortex

Adrenal Medulla

Pheochromocytoma Benign

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland

Pars Distalis, Adenoma

Thyroid Gland

C Cell, Adenoma

C Cell, Carcinoma

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:12

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female
92F

ANIMAL ID

*TOTALS

Alimentary System

| | |
|------------------------|----|
| Intestine Large, Cecum | 1 |
| Liver | 59 |
| Hepatocellular Adenoma | 1 |
| Mesentery | 2 |
| Pancreas | 57 |

Cardiovascular System

| | |
|-------|----|
| Heart | 59 |
|-------|----|

Endocrine System

| | |
|-------------------------|----|
| Adrenal Cortex | 59 |
| Adrenal Medulla | 58 |
| Pheochromocytoma Benign | 1 |
| Islets, Pancreatic | 57 |
| Parathyroid Gland | 37 |
| Pituitary Gland | 57 |
| Pars Distalis, Adenoma | 27 |
| Thyroid Gland | 56 |
| C Cell, Adenoma | 4 |
| C Cell, Carcinoma | 1 |

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:12

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

F 344/N Rat Female

92F

ANIMAL ID

*TOTALS

Genital System

| | |
|----------------------------|----|
| Clitoral Gland | 7 |
| Adenoma | 4 |
| Fibroma | 1 |
| Squamous Cell Papilloma | 2 |
| Ovary | 59 |
| Leiomyoma | 1 |
| Uterus | 59 |
| Endometrium, Polyp Stromal | 5 |

Hematopoietic System

| | |
|-----------------------------------|----|
| Lymph Node, Mesenteric | 59 |
| Spleen | 59 |
| Carcinoma, Metastatic, Tissue Nos | 1 |
| Hemangiosarcoma | 1 |
| Thymus | 40 |

Integumentary System

| | |
|------------------------|----|
| Mammary Gland | 26 |
| Adenocarcinoma | 1 |
| Fibroadenoma | 18 |
| Fibroadenoma, Multiple | 4 |
| Inguinal, Fibroadenoma | 2 |
| Skin | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:18:12

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST

**F 344/N Rat Female
92F**

ANIMAL ID

*TOTALS

| | |
|-----------------------------------|----|
| Subcut Tiss, Fibroma | 1 |
| Subcut Tiss, Fibrosarcoma | 1 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| Brain | 1 |
| Respiratory System | |
| Lung | 59 |
| Carcinoma, Metastatic, Tissue Nos | 1 |
| Special Senses System | |
| Eye | 2 |
| Urinary System | |
| Kidney | 59 |
| Sarcoma | 1 |
| Urinary Bladder | 57 |
| SYSTEMIC LESIONS | |
| Multiple Organ | 59 |
| Leukemia Mononuclear | 13 |

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically