

Experiment Number: 92003-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:23
First Dose M/F: NA / NA
Lab: NIEHS

C Number: C92003
Lock Date: 04/27/1994
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE

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First Dose M/F: NA / NA

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| B6C3F1 Mouse Male 7M | 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 | | | |
| 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 | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | 1 | | 2 | | | | | | | 1 | | | | | | | 1 | | 2 | 1 | 1 | | |
| Infiltration Cellular, Megakaryocyte | | | | | | | | | | | | 2 | | 2 | | 1 | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | | | + | | | + | + | + | | A | + | | + | + | + | | + | M | + | + | A | + | A | + | | + | A | A | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | | M | | | M | M | M | | M | + | | M | M | M | | M | + | + | + | M | M | M | M | | + | M | M | M | M | M | M |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dermis, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | + | | | + | + | + | | + | + | | + | + | + | | + | + | + | + | + | + | A | + | | + | A | + | + | + | + | |
| Alveolar Epith, Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Male 7M | 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 | | | |
| ANIMAL ID | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | | | |
| | 6 | 2 | 9 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 0 | 3 | 2 | 2 | 3 | 5 | 3 | 5 | 0 | 3 | 3 | 3 | | |
| | 8 | 3 | 5 | 4 | 4 | 4 | 2 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 5 | 4 | 1 | 4 | 8 | 4 | 9 | 9 | 4 | 0 | 6 | 0 | 4 | 4 | 4 | 4 | | |
| Acinus, Vacuolization Cytoplasmic | 1 | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiovascular System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | | 1 | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocrine System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | M | + | | + | + | + | + | + | + | M | + | + | + | M | + | + | M | + | M | + | + | A | + | M | + | | + | M | + | + | + | |
| Capsule, Hyperplasia | | 2 | | 3 | 3 | 1 | 3 | 3 | 1 | | 3 | 4 | 3 | | 3 | 2 | | 4 | | | 2 | | 2 | | 1 | | 1 | | 2 | | 3 | |
| Hypertrophy | | 1 | | | | | 2 | | 1 | | | | | | | | 2 | | | | | 2 | | | | | | | 3 | | 2 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | M | + | | + | + | + | M | + | + | M | + | + | + | M | + | M | M | + | M | + | + | A | A | M | + | | + | M | + | + | + | |
| Islets, Pancreatic | + | + | | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | | + | M | + | + | + |
| Hyperplasia | | 4 | 2 | | | 4 | 4 | 4 | | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 1 | 3 | | 3 | 3 | 4 | | 4 | | 3 | 3 | 4 |
| Pituitary Gland | + | M | | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | A | + | M | M | | + | A | + | M | + |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | M | + | | + | + | + | + |
| Follicle, Cyst | | | | | | | 1 | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | |
| Follicular Cel, Hyperplasia | | | | | | | | | | 1 | 1 | | 1 | 2 | | | | | | | | | | | | | | | 1 | 1 | | 1 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
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Lab: NIEHS

| B6C3F1 Mouse Male 7M | 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 | | | | | |
| ANIMAL ID | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | | | | | |
| | 6 | 2 | 9 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 0 | 3 | 2 | 2 | 3 | 5 | 3 | 5 | 0 | 3 | 3 | | | | | |
| | 8 | 3 | 5 | 4 | 4 | 4 | 2 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 5 | 4 | 1 | 4 | 8 | 4 | 9 | 9 | 4 | 0 | 6 | 0 | 4 | 4 | 4 | | | | | |
| Infiltration Cellular, Histiocyte | 2 | 2 | | 1 | 2 | 1 | 2 | 1 | 1 | | 1 | 2 | 3 | 2 | 1 | | 2 | 1 | 1 | | 1 | | | | | | | | | | | | | |
| Infiltration Cellular, Megakaryocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | M | + | A | A | + | + | | + | A | + | + | + | | | |
| Hematopoietic Cell Proliferation | | | 3 | | | | | | 3 | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Thymus | M | M | | + | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | + | M | M | M | M | | M | M | M | M | M | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dermis, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar Epith, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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First Dose M/F: NA / NA

Lab: NIEHS

| | | | | | | | | | | |
|--------------------------|-----------|-------------|---|---|---|---|---|---|---|---|
| B6C3F1 Mouse Male | 7M | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | |
| | | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 2 | 5 | 0 | 2 | 4 | 5 | 6 | 7 | |
| *TOTALS | | | | | | | | | | |

Alimentary System

| | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|----|-----|
| Intestine Large, Cecum | | | | | | | | | 1 | |
| Hyperplasia, Lymphoid | | | | | | | | | 1 | 3.0 |
| Intestine Small, Jejunum | | | | | | | | | 1 | |
| Liver | + | + | + | + | + | | + | + | 57 | |
| Angiectasis | | | | | | | | | 2 | 3.5 |
| Clear Cell Focus | | | | | | | | | 4 | |
| Clear Cell Focus, Multiple | | | | | | | | | 4 | |
| Eosinophilic Focus | X | | | | | X | | | 9 | |
| Eosinophilic Focus, Multiple | | | | | | | | | 4 | |
| Hepatocyte, Midzonal, Vacuolization Cytoplasmic | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Necrosis | | | | | | | | | 4 | 3.3 |
| Mixed Cell Focus | | | | | | | | | 2 | |
| Mixed Cell Focus, Multiple | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | 1 | 3.0 |
| Pancreas | + | + | + | + | + | | + | + | 48 | |
| Acinus, Atrophy | | | | | | | | | 2 | 1.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | 1 | 3.0 |
| Acinus, Degeneration | | | | | | | | | 1 | 1.0 |
| Acinus, Hypertrophy | | | | | | | | | 1 | 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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| B6C3F1 Mouse Male 7M | DAY ON TEST | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------|-----|
| | 0 7 3 4 | 0 7 3 4 | 0 7 3 4 | 0 7 3 4 | 0 7 3 4 | 0 0 1 4 | 0 7 3 4 | 0 7 3 4 | *TOTALS | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Acinus, Vacuolization Cytoplasmic | | | | 1 | | 2 | 1 | | 9 | 1.4 |
| Stomach, Forestomach | | | | | | | | | 1 | |
| Stomach, Glandular | | | | | | | | | 1 | |
| Cardiovascular System | | | | | | | | | | |
| Heart | + | + | + | + | + | | + | + | 57 | |
| Cardiomyopathy | | | | | | | | | 5 | 1.2 |
| Inflammation | | | | | | | | 1 | 1 | 1.0 |
| Myocardium, Mineralization | | | | | | | | | 1 | 1.0 |
| Valve, Inflammation, Acute | | | | | | | | | 1 | 2.0 |
| Endocrine System | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | | + | M | 45 | |
| Capsule, Hyperplasia | 2 | 1 | 3 | 2 | 3 | | 4 | | 40 | 2.3 |
| Hypertrophy | 1 | 3 | | 1 | 1 | | | | 22 | 1.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | 1 | 2.0 |
| Adrenal Medulla | + | + | + | + | + | | + | M | 39 | |
| Islets, Pancreatic | + | + | + | + | + | | + | + | 51 | |
| Hyperplasia | 3 | 4 | 2 | 4 | 4 | | 4 | 3 | 49 | 3.6 |
| Pituitary Gland | M | + | + | + | M | | + | I | 42 | |
| Pars Distalis, Cyst | | | | | | | | | 1 | 1.0 |
| Thyroid Gland | + | + | + | + | + | | + | + | 49 | |
| Follicle, Cyst | 2 | 1 | | 2 | | | | | 13 | 2.0 |
| Follicular Cel, Hyperplasia | | | | 1 | | | | | 16 | 1.1 |

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|---------------------------------------|-------------|---|---|---|---|---|---|---|-----------|----------------|-----|-----|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | |
| | 2 | 5 | 0 | 2 | 4 | 5 | 6 | 7 | | | | | |
| | | | | | | | | | | *TOTALS | | | |
| Inflammation, Acute | | | | | | | | | | 1 | 1.0 | | |
| General Body System | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | 1 | | | |
| Genital System | | | | | | | | | | | | | |
| Preputial Gland | | | | | | | | | | 1 | | | |
| Hypertrophy | | | | | | | | | | 1 | 3.0 | | |
| Seminal Vesicle | + | + | + | + | + | | + | | | 39 | | | |
| Hypertrophy | 4 | 3 | 4 | 4 | 4 | | 4 | | | 38 | 3.8 | | |
| Infiltration Cellular, Megakaryocyte | | | | | | | | | | 1 | 2.0 | | |
| Testes | + | + | + | + | + | | + | + | | 57 | | | |
| Degeneration | | | | | | | | | | 2 | 2 | 2.0 | |
| Mineralization | | | | | | | | | | 1 | 2.0 | | |
| Hematopoietic System | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | | + | + | | 44 | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | 2 | 2.0 | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | 1 | 3.0 | | |
| Infiltration Cellular, Polymorphnuclr | | | | | | | | | | 1 | 3.0 | | |
| Pigmentation | | | | | | | | | | 2 | 2.0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | | + | M | | 45 | | | |
| Ectasia | | | | | | | | | | 1 | 2.0 | | |
| Erythrophagocytosis | 3 | 3 | | 1 | | | 2 | | | 18 | 2.1 | | |

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|---|-------------|---|---|---|---|---|---|---|-----------|--|----|----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 0 | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | |
| | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| | 2 | 5 | 0 | 2 | 4 | 5 | 6 | 7 | | | | |
| | | | | | | | | | | | | *TOTALS |
| Infiltration Cellular, Histiocyte | 2 | 1 | | 1 | 1 | | 2 | | | | 32 | 1.5 |
| Infiltration Cellular, Megakaryocyte | | | | | | | | | | | 3 | 1.7 |
| Inflammation, Granulomatous | | | | | | | | | | | 1 | 3.0 |
| Spleen | + | + | + | + | + | | + | + | | | 49 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 5 | 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 3 | 2.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | 1 | 2.0 |
| Thymus | M | M | + | + | M | | M | M | | | 11 | |
| Integumentary System | | | | | | | | | | | | |
| Skin | | | | | + | | | | | | 2 | |
| Atrophy | | | | | 3 | | | | | | 1 | 3.0 |
| Dermis, Atrophy | | | | | | | | | | | 1 | 2.0 |
| Musculoskeletal System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | |
| Lung | + | + | + | + | + | | + | + | | | 58 | |
| Alveolar Epith, Hyperplasia | | | | | | | | | | | 1 | 3.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | 3 | 3.3 |
| Congestion | | | | | | | | | | | 1 | 3.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:26

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male
7M

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 2 | 5 | 0 | 2 | 4 | 5 | 6 | 6 | 7 |

*TOTALS

| | | | | | | | | | | | |
|------------------------------|--|---|---|---|---|---|---|---|---|----|-----|
| Congestion | | | | | | | | | | 1 | 3.0 |
| Inflammation, Granulomatous | | | 1 | | | | | | | 1 | 1.0 |
| Pleura | | | | | | | | | | 1 | |
| Special Senses System | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | 1 | |
| Urinary System | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | | | 53 |
| Cortex, Mineralization | | | | | | | | | | 2 | 1.5 |
| Fibrosis | | | | | | | | | | 1 | 2.0 |
| Inflammation, Acute | | | | | | | | | | 1 | 3.0 |
| Metaplasia, Osseous | | | | | | | | | | 1 | 1.0 |
| Nephropathy | | 2 | 1 | 1 | 1 | | | | | 22 | 1.6 |
| Pelvis, Hydronephrosis | | | | | | | | | | 2 | 3.0 |
| Renal Tubule, Cyst | | 3 | | | | | | | 2 | 3 | 2.7 |
| Renal Tubule, Degeneration | | | | | | | | | | 1 | 2.0 |
| Renal Tubule, Dilatation | | | | | | | | 2 | | 16 | 1.9 |
| Urinary Bladder | | + | + | + | + | + | + | + | | | 50 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:27

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Male 9M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 075 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | |
| ANIMAL ID | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | |
| Heart | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coron Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coron Artery, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coron Artery, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocrine System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hyperplasia | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | M | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cel, Hyperplasia | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:27

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Male 9M | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| | 075 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | |
| ANIMAL ID | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | |
| Nephropathy | 1 | 2 | 1 | 2 | | | | 1 | 1 | 1 | 1 | 2 | 1 | | | | | | | 2 | 1 | 1 | 2 | 1 | 1 | | | 3 | 2 | 1 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | 2 | | | | 1 | | | 3 | | | 2 | | 2 | | | | 3 | | 1 | | | | | | | | |
| Urinary Bladder | + | + | + | + | | | A | + | + | A | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:28

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Male 9M | 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 | |
| ANIMAL ID | 6 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | |
| | 8 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 0 | 8 | 1 | 3 | 3 | 0 | 3 | 3 | 6 | 7 | 3 | |
| | 3 | 5 | 7 | 5 | 5 | 5 | 5 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 1 | 9 | 4 | 5 | 5 | 4 | 5 | 5 | 7 | 5 | 5 | |
| | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 2 | 5 | 6 | 2 | 5 | 7 | 0 | 6 | 2 | 3 | 6 | 8 | 2 | 3 | 7 | 8 | 2 | 4 | 6 | 7 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 3 | |
| Heart | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | |
| Coron Artery, Inflammation | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Coron Artery, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coron Artery, Necrosis | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Myocardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocrine System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | M | + | | + | M | M | + | + | A | + | + | + | + | M | + | M | + | + | M | + | + | | + | + | M | M | + | + | + | + |
| Capsule, Hyperplasia | | 1 | | | | | | 2 | 3 | | 1 | 2 | 2 | 3 | | | 1 | | | 2 | 2 | | 3 | 3 | | | 3 | 3 | | 2 |
| Hypertrophy | | 2 | | | | | | | | | 2 | 1 | 3 | | | | | | | 4 | | | 2 | 2 | | | 3 | | | 1 |
| Adrenal Medulla | M | + | | + | M | M | + | + | A | + | + | + | + | M | + | M | + | + | M | + | M | | + | + | M | M | + | + | + | + |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Islets, Pancreatic | M | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | 2 | | 3 | 4 | 3 | 4 | 1 | 4 | 2 | 2 | 4 | 1 | 4 | | | 1 | 3 | 2 | 4 | 3 | | 2 | 3 | | 1 | 2 | 3 | | 3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | | + | M | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Thyroid Gland | M | + | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicle, Cyst | | 1 | | 2 | 2 | 2 | 2 | 1 | | 2 | | 3 | | | | 2 | 2 | | | | | 1 | 1 | | 2 | 1 | | | | 1 |
| Follicular Cel, Hyperplasia | | 2 | | 2 | 2 | 3 | 1 | | | | | | | 2 | 2 | 1 | | | | | | 2 | | 2 | | | | | 2 | 2 |

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

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

1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:29

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Male 9M | DAY ON TEST | | | | | | | | ANIMAL ID | |
|-------------------------|-------------|---|---|---|---|---|---|---|-----------|----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 0 | |
| | 5 | 5 | 5 | 5 | 6 | 6 | 0 | 0 | 0 | |
| | 4 | 6 | 7 | 9 | 1 | 3 | 1 | 2 | | *TOTALS |

Alimentary System

| | | | | | | | | | | |
|--|---|---|---|---|---|---|---|--|----|-----|
| Liver | + | + | + | + | + | + | + | | 62 | |
| Angiectasis, Focal | | | | | | | | | 1 | 2.0 |
| Bile Duct, Cyst | | | | | | | | | 1 | 3.0 |
| Clear Cell Focus | | X | | | | X | | | 17 | |
| Clear Cell Focus, Multiple | | | | X | | | | | 7 | |
| Eosinophilic Focus | | X | | | | | | | 8 | |
| Eosinophilic Focus, Multiple | | | | | | | X | | 2 | |
| Hepatocyte, Midzonal, Vacuolization Cytoplasmic | | | | | | | | | 1 | 3.0 |
| Hepatocyte, Necrosis | | | | | | | | | 2 | 3.0 |
| Midzonal, Vacuolization Cytoplasmic | | | | | | | | | 1 | 2.0 |
| Mixed Cell Focus | | | | | | | | | 3 | |
| Mesentery | | | | | + | | | | 3 | |
| Fat, Necrosis | | | | | 4 | | | | 3 | 3.7 |
| Pancreas | A | + | + | + | + | + | + | | 59 | |
| Acinus, Atrophy | | | | | | 1 | | | 1 | 1.0 |
| Acinus, Cyst | | | | | | | | | 1 | 2.0 |
| Acinus, Degeneration, Focal | | | | | | | | | 1 | 1.0 |
| Acinus, Necrosis | | | | | | | | | 1 | 4.0 |
| Acinus, Vacuolization Cytoplasmic | | 1 | | 2 | | | | | 3 | 1.3 |

Cardiovascular System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male
9M

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

*TOTALS

| | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|----|-----|
| Heart | + | + | + | + | + | + | + | | 64 | |
| Cardiomyopathy | | | | | | | | | 2 | 1.5 |
| Coron Artery, Inflammation | | | | | | | | | 4 | 2.8 |
| Coron Artery, Mineralization | | | | | | | | | 1 | 1.0 |
| Coron Artery, Necrosis | | | | | | | | | 1 | 4.0 |
| Myocardium, Inflammation | | | | | | | | | 1 | 2.0 |
| Endocrine System | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | M | M | | 46 | |
| Capsule, Hyperplasia | 2 | 2 | | 2 | 3 | | | | 38 | 2.3 |
| Hypertrophy | | 2 | 3 | | 2 | | | | 25 | 1.9 |
| Adrenal Medulla | A | + | + | + | + | M | M | | 43 | |
| Hypertrophy | | | | | | | | | 1 | 2.0 |
| Islets, Pancreatic | A | + | + | + | + | + | + | | 60 | |
| Hyperplasia | | | 3 | | 4 | 1 | 4 | 4 | 53 | 3.0 |
| Necrosis | | | | | | | | | 1 | 4.0 |
| Pituitary Gland | A | + | + | + | + | + | M | | 48 | |
| Cyst | | | | | | | | | 1 | 1.0 |
| Thyroid Gland | A | + | + | + | + | + | + | | 56 | |
| Follicle, Cyst | | | | 2 | 2 | 2 | | | 27 | 1.9 |
| Follicular Cel, Hyperplasia | | | | 1 | | 2 | | 1 | 25 | 1.6 |

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male
9M

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 |
| | 5 | 5 | 5 | 5 | 6 | 6 | 0 | 0 | 0 |
| | 4 | 6 | 7 | 9 | 1 | 3 | 1 | 2 | |
| | *TOTALS | | | | | | | | |

Integumentary System

| | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|---|-----|
| Mammary Gland | | | | | | | | | | 1 | |
| Skin | | | | | | | | | | 3 | |
| Inflammation, Chronic Active | | | | | | | | | | 1 | 4.0 |
| Subcut Tiss, Inflammation, Acute | | | | | | | | | | 1 | 4.0 |

Musculoskeletal System

NONE

Nervous System

| | | | | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|---|
| Brain | | | | | | | | | | | 1 |
|-------|--|--|--|--|--|--|--|--|--|--|---|

Respiratory System

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|-------|
| Lung | | | | | | | | | | | 63 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | 3 | 4 3.3 |

Special Senses System

| | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|-------|
| Eye | | | | | | | | | | | 1 |
| Degeneration | | | | | | | | | | | 1 3.0 |
| Harderian Gland | | | | | | | | | | | 3 |

Urinary System

| | | | | | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|--|--|-------|
| Kidney | | | | | | | | | | | 61 |
| Cyst, Focal | | | | | | | | | | | 1 2.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male
9M

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--------------------------|----------------|---|---|---|---|---|---|---|---|----|-----|
| | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | | |
| | 5 | 5 | 5 | 5 | 6 | 6 | 0 | 0 | 0 | | |
| | 4 | 6 | 7 | 9 | 1 | 3 | 1 | 2 | | | |
| | *TOTALS | | | | | | | | | | |
| Nephropathy | 1 | | | | | | 1 | | | 32 | 1.5 |
| Pelvis, Inflammation | | | | | | | | | | 1 | 3.0 |
| Renal Tubule, Cyst | | | 3 | 2 | | | | | | 2 | 2.5 |
| Renal Tubule, Dilatation | | 2 | | | | | | | | 14 | 1.8 |
| Urinary Bladder | A | + | + | + | + | + | + | | | 59 | |
| Inflammation, Chronic | | | | | | | | | | 1 | 4.0 |

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:30

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 7F | 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 |
| | 1 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 7 | 6 | 6 | 4 | 6 | 3 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 3 | 6 | 7 | 6 | 6 | 4 | 7 | 1 | 6 | 7 | 6 | 6 | |
| 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 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 4 | 6 | 8 | 0 | 2 | 4 | 5 | 6 | 0 | 7 | 4 | 6 | 0 | 1 | 2 | 4 | 8 | 9 | 1 | 2 | 3 | 5 | 7 | 9 | 0 | 0 | 0 | |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | | |
| Capsule, Hyperplasia | 2 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | | 2 | 2 | 3 | 2 | 2 | | 2 | 1 | 2 | 3 | | 3 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | |
| Adrenal Medulla | + | M | + | + | + | A | M | + | + | M | + | + | + | + | + | + | + | + | + | A | + | + | M | M | + | + | M | + | + | | |
| Islets, Pancreatic | + | + | + | + | + | A | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 3 | | | | | | 3 | 1 | 1 | 1 | 1 |
| Pituitary Gland | + | + | + | M | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | M | I | + | + | + | + | + | + | M | + | + | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Follicle, Cyst | | | 2 | | 1 | 1 | | 3 | 1 | 1 | | 2 | 1 | 1 | 2 | 3 | | 2 | | | 2 | | | | | | 1 | | 1 | | 2 |
| Follicular Cel, Hyperplasia | | | | | | 1 | | | 1 | 1 | | 2 | | | | | | 2 | | | 2 | | | | | 1 | | 1 | | 1 | |
| Inflammation | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |

General Body System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | + |
|------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ovary | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | |
| Bilateral, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Infiltration Cellular, Histiocyte | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | 1 | 2 | | 2 | 2 | |
| Uterus | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | |
| Bilateral, Cyst | 4 | | 2 | | 4 | | 4 | 3 | 1 | 2 | 4 | 3 | 4 | 4 | 2 | | 3 | 4 | 4 | 3 | 4 | | | | 1 | | 4 | 4 | 4 | 4 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:31

First Dose M/F: NA / NA

Lab: NIEHS

| | | | | | | | | | | |
|----------------------------|-------------|---|---|---|---|---|---|---|---|----------------|
| B6C3F1 Mouse Female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 0 | 7 | 7 | 7 | 7 | 0 | 7 | |
| | | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | |
| 7F | | 6 | 4 | 6 | 6 | 6 | 6 | 8 | 6 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | |
| | | 9 | 0 | 3 | 5 | 6 | 8 | 4 | 6 | |
| | | | | | | | | | | *TOTALS |

Alimentary System

| | | | | | | | | | | |
|---|---|--|---|---|---|---|--|---|--|--------|
| Intestine Small, Jejunum | | | | | | | | | | 1 |
| Liver | + | | + | + | + | + | | + | | 60 |
| Basophilic Focus | | | | | | | | | | 1 |
| Clear Cell Focus | | | | | | | | X | | 4 |
| Clear Cell Focus, Multiple | | | | | | | | | | 3 |
| Eosinophilic Focus | | | | | | | | | | 14 |
| Eosinophilic Focus, Multiple | | | | | | | | | | 7 |
| Hematopoietic Cell Proliferation | | | | | | | | | | 1 2.0 |
| Hepatocyte, Necrosis | | | | | | | | | | 2 2.0 |
| Infiltration Cellular, Mast Cell, Diffuse | | | | | | | | | | 1 2.0 |
| Inflammation, Focal | | | | | | | | | | 2 2.5 |
| Mixed Cell Focus, Multiple | | | | | | | | | | 3 |
| Periportal, Infiltration Cellular, Lymphocyte | | | | | | | | | | 1 2.0 |
| Mesentery | | | + | | | | | | | 15 |
| Fat, Necrosis | | | | 3 | | | | | | 15 3.5 |
| Pancreas | + | | + | + | + | + | | + | | 54 |
| Acinus, Degeneration | | | | | | | | | | 3 1.7 |
| Acinus, Inflammation | | | | | | | | | | 5 2.0 |
| Acinus, Vacuolization Cytoplasmic | | | | | | | | | | 1 2.0 |

Cardiovascular System

| | | | | | | | | | | |
|-------|---|--|---|---|---|---|--|---|--|----|
| Heart | + | | + | + | + | + | | + | | 62 |
|-------|---|--|---|---|---|---|--|---|--|----|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:31

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 7F | DAY ON TEST | | | | | | | | ANIMAL ID | |
|---------------------------|-------------|---|---|---|---|---|---|---|-----------|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 0 | 7 | 7 | 7 | 7 | 0 | 7 | | |
| | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | | |
| | 6 | 4 | 6 | 6 | 6 | 6 | 8 | 6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | | |
| | 9 | 0 | 3 | 5 | 6 | 8 | 4 | 6 | | *TOTALS |

Endocrine System

| | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|----|-----|--|
| Adrenal Cortex | + | + | + | + | + | + | + | 52 | | |
| Capsule, Hyperplasia | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 52 | 2.4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | 45 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | 53 | | |
| Hyperplasia | 1 | 2 | | | 2 | | | 27 | 1.6 | |
| Pituitary Gland | M | + | + | + | + | + | + | 47 | | |
| Thyroid Gland | + | + | + | + | + | + | + | 54 | | |
| Cyst | | | | | | | | 1 | 1.0 | |
| Follicle, Cyst | 2 | 1 | 2 | 2 | 2 | | 1 | 36 | 1.5 | |
| Follicular Cel, Hyperplasia | 1 | | | 2 | | | 1 | 20 | 1.4 | |
| Inflammation | | | | | | | | 1 | 1.0 | |

General Body System

| | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|---|--|--|
| Tissue NOS | | | | | | | | 3 | | |
|------------|--|--|--|--|--|--|--|---|--|--|

Genital System

| | | | | | | | | | | |
|--|---|---|---|---|---|---|---|----|-----|--|
| Ovary | + | + | + | + | + | + | + | 52 | | |
| Bilateral, Cyst | | | | | | 1 | | 1 | 1.0 | |
| Bilateral, Infiltration Cellular, Histiocyte | | | | | | | | 1 | 3.0 | |
| Cyst | | | 2 | | | | | 14 | 2.1 | |
| Uterus | + | + | + | + | + | + | + | 58 | | |
| Bilateral, Cyst | 3 | 4 | 4 | 3 | 2 | | | 47 | 3.2 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:31

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 7F | DAY ON TEST | | | | | | | | ANIMAL ID | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|-----------|---|----|----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 7 | 0 | 7 | 7 | 7 | 7 | 0 | 7 | | | | |
| | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | | | | |
| | 6 | 4 | 6 | 6 | 6 | 6 | 8 | 6 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | | | | |
| | 9 | 0 | 3 | 5 | 6 | 8 | 4 | 6 | | | | |
| | | | | | | | | | | | | *TOTALS |
| Cyst | | | | | | | | | 2 | | 9 | 2.4 |
| Vagina | | | | | | | | | | | 1 | |
| Hematopoietic System | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | | | | | 49 | |
| Hemorrhage | | | | | | | | | | | 1 | 2.0 |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | 1 | 3.0 |
| Lymph Node, Mesenteric | | M | | + | + | + | | | | M | 43 | |
| Erythrophagocytosis | | | | | | | | | | | 3 | 1.7 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Histiocyte | | | | 2 | 2 | 2 | 1 | | | | 26 | 1.6 |
| Spleen | | + | + | + | + | + | | | | | 55 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 14 | 2.6 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | 1 | 3.0 |
| Thymus | | M | | + | M | M | + | | | M | 20 | |
| Epithel Cell, Hyperplasia | | | | | | | | | | | 5 | 2.0 |
| Integumentary System | | | | | | | | | | | | |
| Skin | | | | | | | | | | | 4 | |
| Musculoskeletal System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:31

First Dose M/F: NA / NA

Lab: NIEHS

| | | | | | | | | | | |
|----------------------------|-----------|-------------|---|---|---|---|---|---|---|---|
| B6C3F1 Mouse Female | 7F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 0 | 7 | 7 | 7 | 7 | 0 | 7 | |
| | | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | |
| | | 6 | 4 | 6 | 6 | 6 | 6 | 8 | 6 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | | 9 | 0 | 3 | 5 | 6 | 8 | 4 | 6 | |
| *TOTALS | | | | | | | | | | |

NONE

Respiratory System

| | | | | | | | | |
|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | 60 | |
| Alveolar Epith, Hyperplasia | | | | | | | 3 | 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | 1 | 3.0 |

Special Senses System

| | | | | | | | | |
|-----------------|--|--|--|--|--|--|---|--|
| Eye | | | | | | | 1 | |
| Harderian Gland | | | | | | | 1 | |

Urinary System

| | | | | | | | | |
|---------------------|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | + | 56 | |
| Metaplasia, Osseous | | | | | | | 2 | 1.0 |
| Nephropathy | | | 1 | | | | 13 | 1.3 |
| Urinary Bladder | + | + | + | + | + | + | 51 | |
| Inflammation, Acute | | | | | | | 1 | 4.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:32

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 9F | 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 |
| | 7 | 7 | 0 | 1 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 9 | 7 | 3 | 3 | 6 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 7 | 0 | 1 | 8 | 7 | 7 | 7 | 5 | 8 | 8 | 8 | 1 | 8 | 7 | 1 | 7 | 8 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 4 | 8 | 2 | 3 | 9 | 3 | 4 | 7 | 8 | 9 | 0 | 4 | 5 | 6 | 8 | 0 | 1 | 2 | 6 | 7 | 8 | 9 | 1 | 4 | 5 | 5 | 5 | 6 |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | M | + | + | + | A | M | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | |
| Capsule, Hyperplasia | 3 | 3 | | 2 | 3 | 3 | 3 | 4 | | 4 | 3 | 3 | | | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | | 3 | | 2 | 2 | 2 | 2 | 2 | | |
| Zona Reticul, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | M | M | + | + | + | + | M | + | + | + | A | M | + | M | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | M | + | + | + | A | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Hyperplasia | | 3 | | 2 | | | | 1 | | | | 1 | 2 | | | | 2 | 1 | 2 | 1 | 3 | | 1 | | 2 | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | M | + | M | M | + | + | A | + | + | + | + | + | + | M | + | + | M | + | M | M | + | M | M | + | + | + | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | 2 | | | | | 1 | 2 | 1 | | | | 2 | | | | 2 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | | |
| Follicular Cel, Hyperplasia | 3 | 1 | | | 3 | 2 | 1 | 1 | | | | 2 | | 2 | 1 | | 1 | 3 | 2 | 2 | 1 | 1 | | 2 | 2 | 1 | 2 | | | | 1 | | |

General Body System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ovary | + | + | M | + | + | + | + | + | M | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bilateral, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 4 | 3 | | | | | 2 | 3 | | 3 | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | M | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:04:33

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 9F | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0 7 3 7 | 0 7 3 7 | 0 7 3 7 | 0 7 3 7 | 0 7 3 7 | 0 7 2 1 | 0 7 3 8 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | 0 7 3 7 | 0 7 3 8 | |
| ANIMAL ID | 0 0 5 3 7 | 0 0 5 3 8 | 0 0 5 4 6 | 0 0 5 4 8 | 0 0 5 4 9 | 0 0 5 5 1 | 0 0 5 5 2 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 | 0 0 5 5 5 |
| Bilateral, Cyst | 4 | | 2 4 | | 4 | | 4 3 2 | | 4 3 1 3 4 | | 4 4 | | 4 4 | | 2 3 4 | | 3 | | 3 3 3 | | 3 3 3 | | 2 4 4 | | 4 4 | | | | |
| Cyst | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithel Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:33

First Dose M/F: NA / NA

Lab: NIEHS

| | | | | | | | | | | |
|----------------------------|-----------|-------------|---|---|---|---|---|---|---|---|
| B6C3F1 Mouse Female | 9F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | |
| | | 4 | 3 | 3 | 5 | 9 | 2 | 2 | 3 | |
| | | 8 | 7 | 8 | 0 | 7 | 3 | 1 | 7 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | | 2 | 2 | 2 | 3 | 3 | 3 | 0 | 0 | |
| | | 4 | 7 | 9 | 1 | 2 | 3 | 3 | 4 | |
| *TOTALS | | | | | | | | | | |

Alimentary System

| | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|--|--|--|--------|
| Liver | | | | | | | | | | 62 |
| Angiectasis | + | + | + | A | + | A | | | | 1 2.0 |
| Basophilic Focus | | | | | | | | | | 1 |
| Clear Cell Focus | | | | | | | | | | 3 |
| Clear Cell Focus, Multiple | | | | | | | | | | 1 |
| Eosinophilic Focus | | | | | | | | | | 7 |
| Eosinophilic Focus, Multiple | | | | | | | | | | 8 |
| Hepatocyte, Necrosis | | | | | | | | | | 2 3.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | 1 2.0 |
| Mixed Cell Focus | | | | | | | | | | 1 |
| Mixed Cell Focus, Multiple | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | 12 |
| Fat, Inflammation | | | | | | | | | | 1 1.0 |
| Fat, Necrosis | | | | | | | | | | 11 3.6 |
| Pancreas | M | + | + | M | + | A | | | | 57 |
| Acinus, Degeneration | | | | | | | | | | 2 1.0 |
| Acinus, Hypertrophy | | | 1 | | | | | | | 2 1.0 |
| Acinus, Vacuolization Cytoplasmic | | | | | | | | | | 3 1.3 |

Cardiovascular System

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|--|--|--|----|
| Heart | + | + | + | A | + | A | | | | 64 |
|-------|---|---|---|---|---|---|--|--|--|----|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:33

First Dose M/F: NA / NA

Lab: NIEHS

| | | | | | | | | | |
|-----------------------------------|-------------|----------------|---|---|---|---|---|---|---|
| B6C3F1 Mouse Female 9F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 7 | 7 | 6 | 4 | 6 | 7 | 7 |
| | | 4 | 3 | 3 | 5 | 9 | 2 | 2 | 3 |
| | | 8 | 7 | 8 | 0 | 7 | 3 | 1 | 7 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | | 2 | 2 | 2 | 3 | 3 | 3 | 0 | 0 |
| | | 4 | 7 | 9 | 1 | 2 | 3 | 3 | 4 |
| | | *TOTALS | | | | | | | |

Endocrine System

| | | | | | | | | |
|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | M | + | + | M | + | A | 52 | |
| Capsule, Hyperplasia | | | 3 | 2 | | 2 | 50 | 2.5 |
| Zona Reticul, Vacuolization Cytoplasmic | | | | | | | 1 | 4.0 |
| Adrenal Medulla | M | + | + | M | + | A | 45 | |
| Islets, Pancreatic | M | + | + | M | + | A | 58 | |
| Hyperplasia | | | | 1 | | 1 | 22 | 1.7 |
| Pituitary Gland | + | + | + | + | + | M | 52 | |
| Pars Distalis, Hyperplasia | | | | | | | 5 | 2.0 |
| Thyroid Gland | M | + | + | A | + | A | 60 | |
| Follicle, Cyst | | | 2 | 1 | | | 44 | 1.4 |
| Follicular Cel, Hyperplasia | | | 2 | | | 1 | 42 | 1.7 |

General Body System

Tissue NOS 2

Genital System

| | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|----|-----|
| Ovary | M | + | + | A | + | A | 59 | |
| Bilateral, Cyst | | | | | | | 1 | 3.0 |
| Cyst | | | | 3 | | | 21 | 2.3 |
| Hemorrhage | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | 1 | 3.0 |
| Uterus | + | + | + | A | + | A | 63 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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1) Minimal 3) Moderate

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Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:33

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 9F | DAY ON TEST | | | | | | | | ANIMAL ID | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|-----------|--|----|----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 6 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | | | | |
| | 4 | 3 | 3 | 5 | 9 | 2 | 2 | 3 | | | | |
| | 8 | 7 | 8 | 0 | 7 | 3 | 1 | 7 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | | | | |
| | 2 | 2 | 2 | 3 | 3 | 3 | 0 | 0 | | | | |
| | 4 | 7 | 9 | 1 | 2 | 3 | 3 | 4 | | | | |
| | | | | | | | | | | | | *TOTALS |
| Bilateral, Cyst | 3 | 4 | 2 | | | | | | | | 42 | 3.2 |
| Cyst | | | | | | | | | | | 12 | 3.2 |
| Inflammation, Acute | | | | | | | | | | | 1 | 2.0 |
| Hematopoietic System | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | + | + | A | M | A | | | | | 54 | |
| Erythrophagocytosis | | | | | | | | | | | 3 | 2.0 |
| Hemorrhage | | 1 | | | | | | | | | 1 | 1.0 |
| Lymph Node, Mesenteric | M | + | M | M | A | M | | | | | 51 | |
| Atrophy | | | | | | | | | | | 1 | 3.0 |
| Erythrophagocytosis | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 1 | 2.0 |
| Infiltration Cellular, Histiocyte | | | 2 | | | | | | | | 26 | 1.4 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | 1 | 3.0 |
| Spleen | + | + | + | A | + | A | | | | | 61 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 21 | 2.6 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 3 | 2.7 |
| Thymus | M | M | + | M | M | M | | | | | 25 | |
| Angiectasis | | | | | | | | | | | 1 | 2.0 |
| Epithel Cell, Hyperplasia | | | | | | | | | | | 6 | 2.2 |
| Integumentary System | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | 1 | |
| Skin | | | | | | A | | | | | 7 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:34

First Dose M/F: NA / NA

Lab: NIEHS

| B6C3F1 Mouse Female 9F | DAY ON TEST | | | | | | | | *TOTALS |
|---------------------------|-------------|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 7 | 6 | 4 | 6 | 7 | 7 | |
| | 4 | 3 | 3 | 5 | 9 | 2 | 2 | 3 | |
| | 8 | 7 | 8 | 0 | 7 | 3 | 1 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | 2 | 2 | 2 | 3 | 3 | 3 | 0 | 0 | |
| | 4 | 7 | 9 | 1 | 2 | 3 | 3 | 4 | |

| | | |
|------------------------|---|-----|
| Hair Follicle, Atrophy | 2 | 2.5 |
| Hair Follicle, Cyst | 1 | 3.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

| | | | | | | | | |
|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | A | + | A | 64 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | 2 | 2.5 |
| Hemorrhage | | | | | | | 1 | 2.0 |
| Mediastinum, Hemorrhage | | | | | | | 1 | 4.0 |
| Mediastinum, Inflammation, Granulomatous | | | | | | | 1 | 2.0 |
| Pigmentation | | | | | | | 2 | 3.0 |

Special Senses System

| | | | | | | | | |
|-----------------|--|--|--|--|--|--|---|--|
| Harderian Gland | | | | | | | 4 | |
|-----------------|--|--|--|--|--|--|---|--|

Urinary System

| | | | | | | | | |
|------------------------|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | A | 62 | |
| Bilateral, Nephropathy | | | | | | | 2 | 1.5 |
| Nephropathy | | | | | | | 17 | 1.6 |
| Urinary Bladder | M | + | + | A | + | A | 54 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

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First Dose M/F: NA / NA

Lab: NIEHS

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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M ..Missing tissue

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2) Mild 4) Marked